

Fig.1

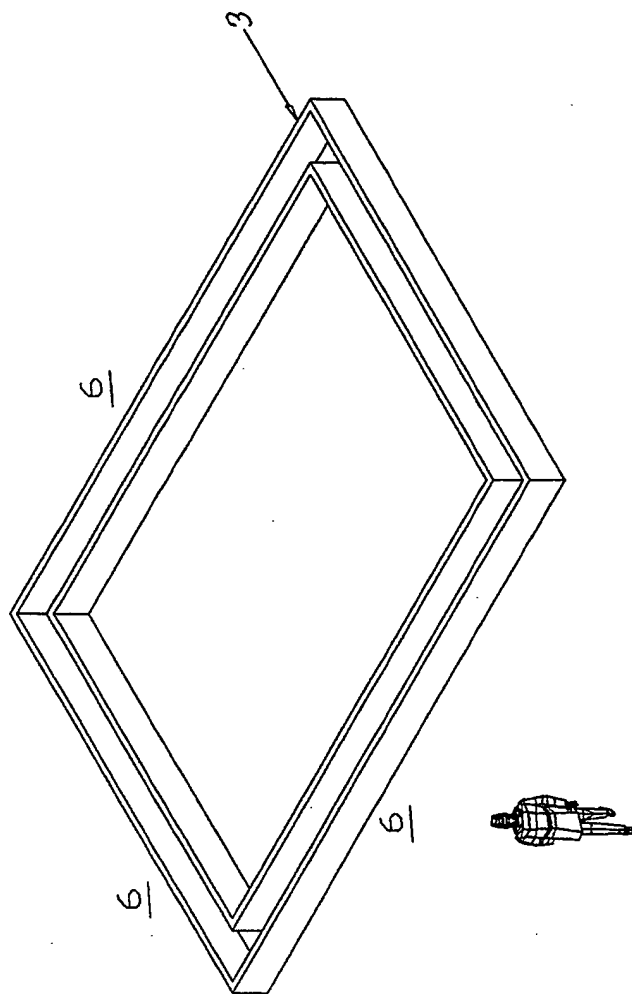


Fig. 2

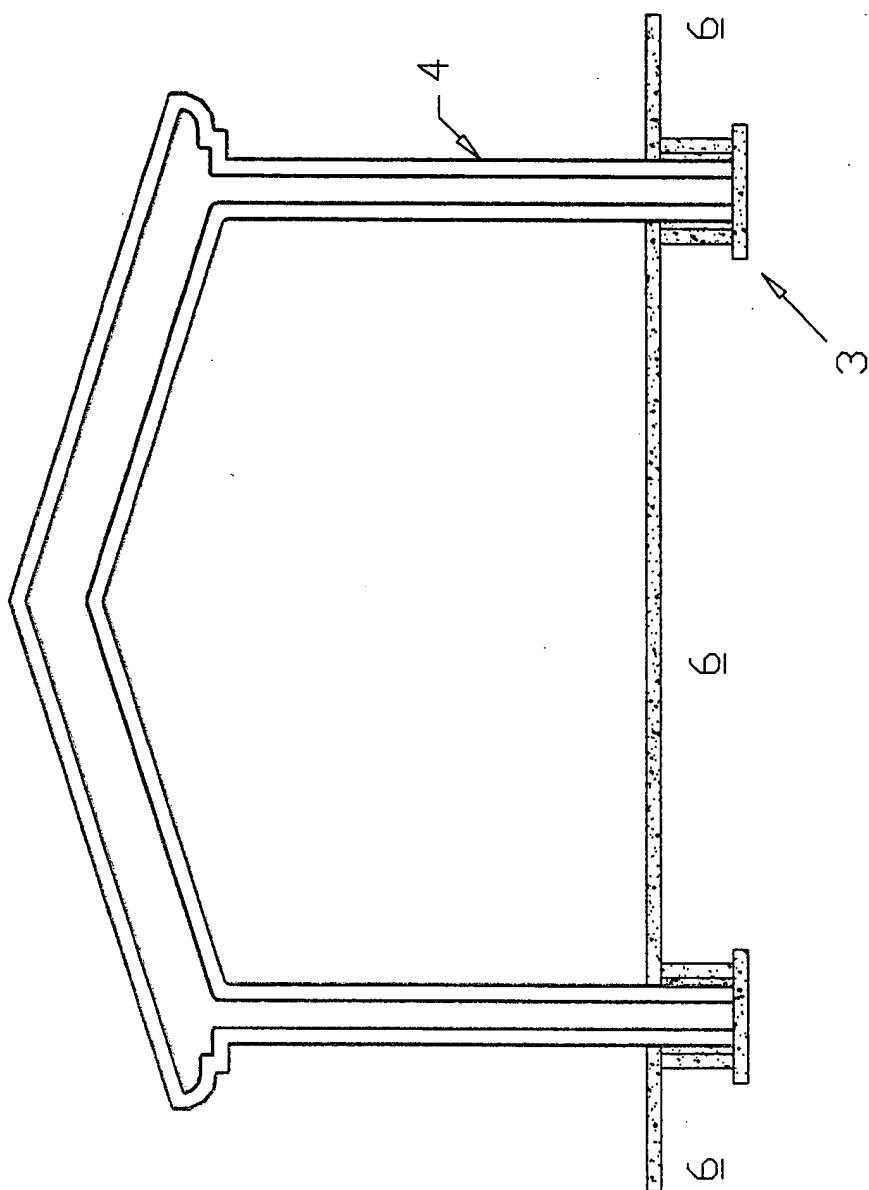


Fig. 3

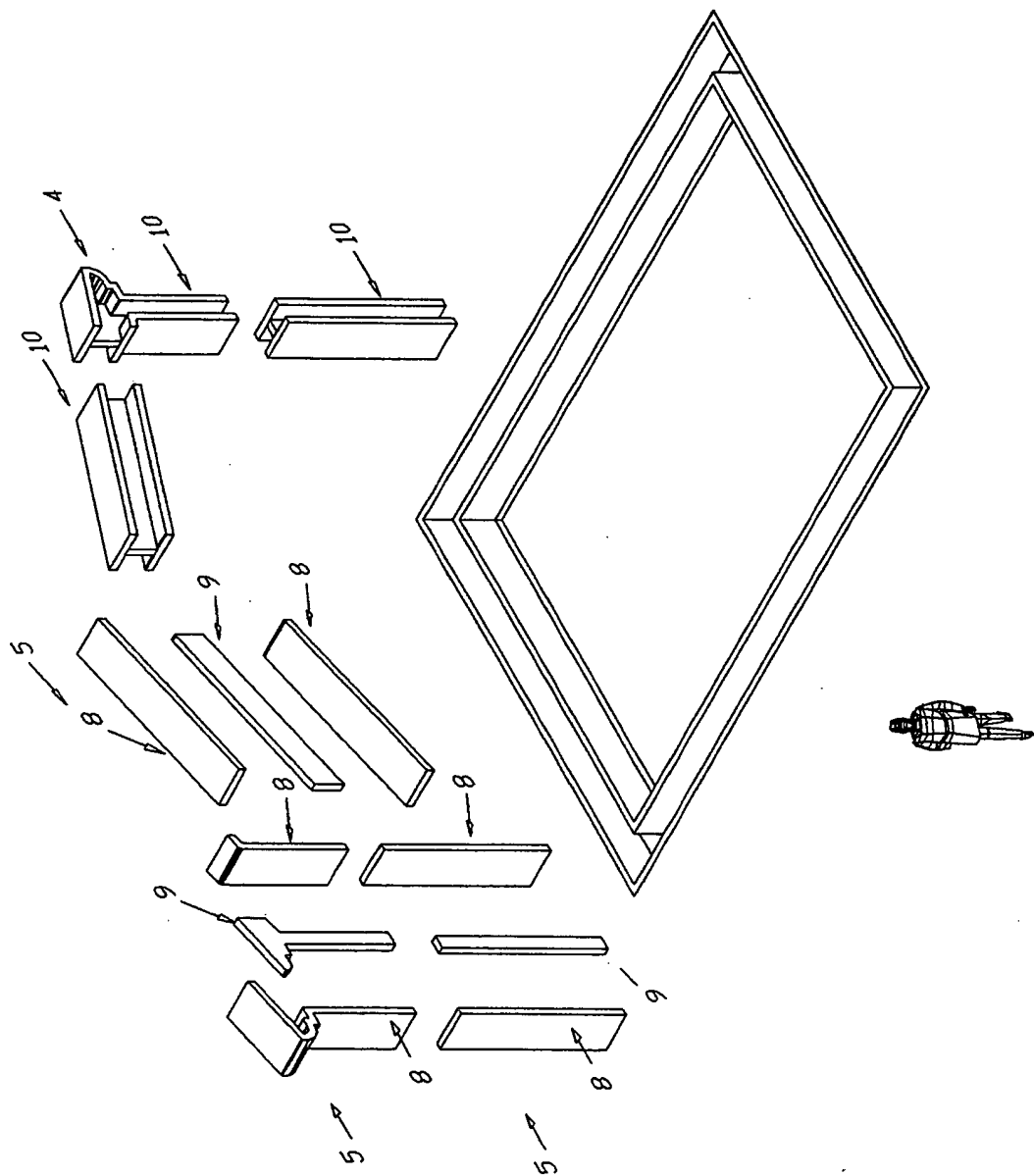


Fig.4

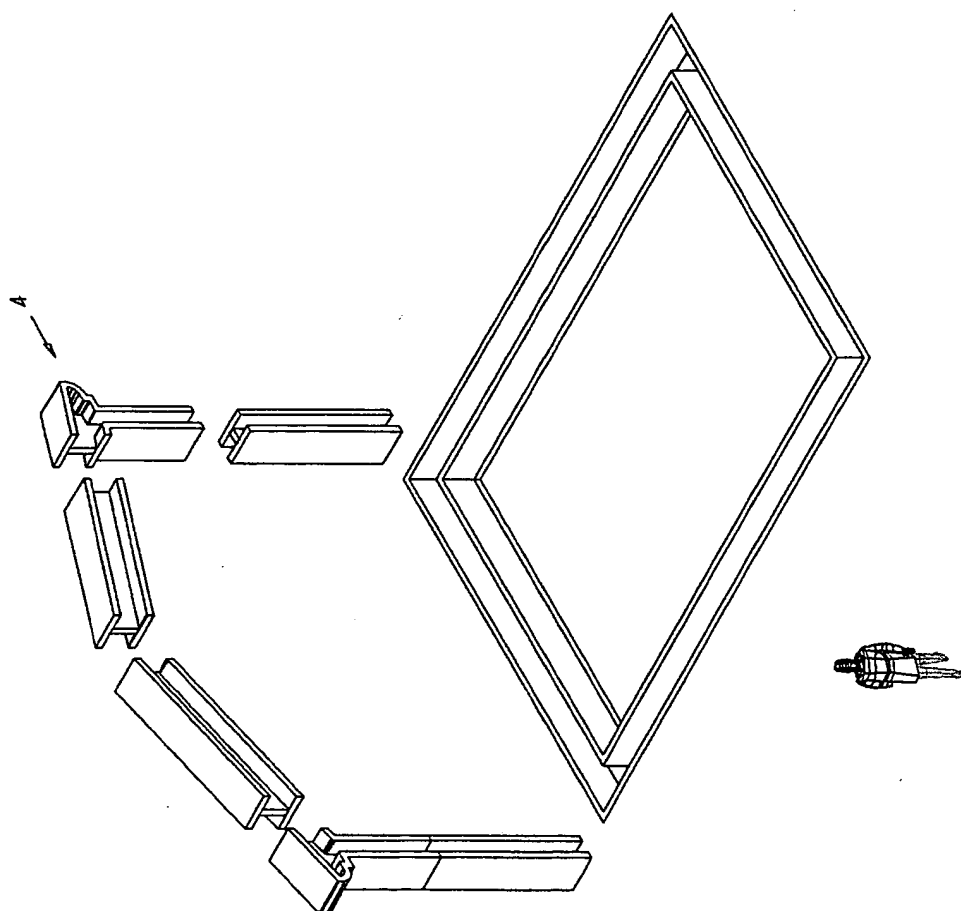


Fig.5

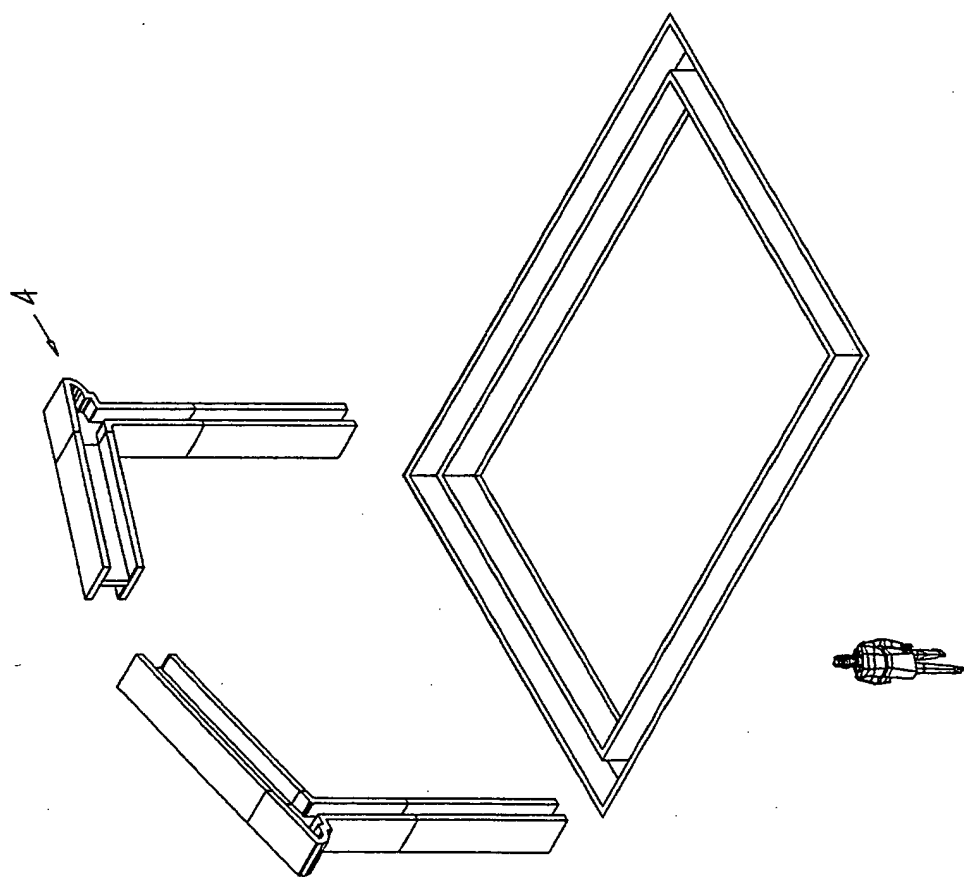


Fig. 6

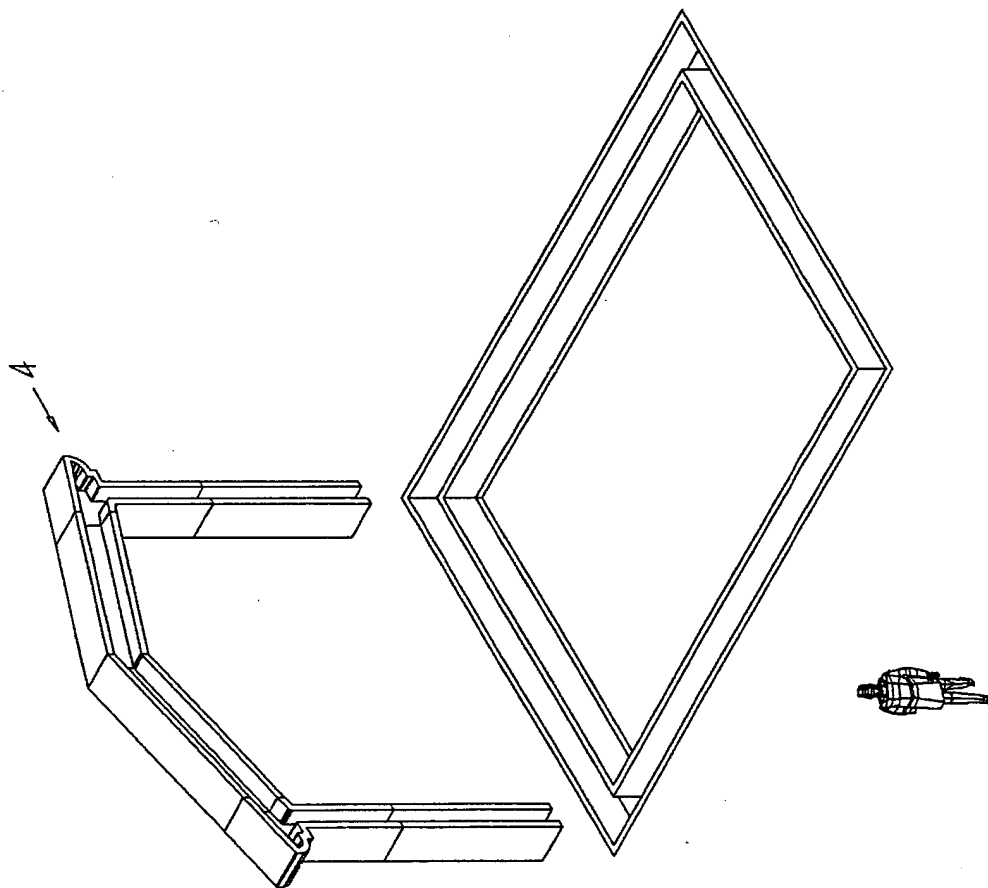


Fig. 7

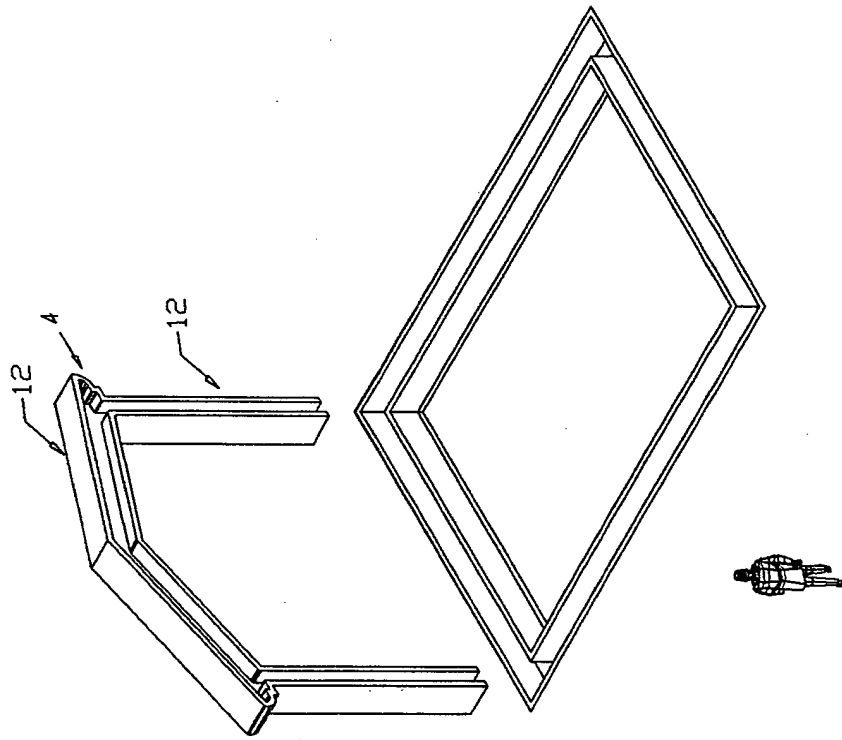


Fig. 8

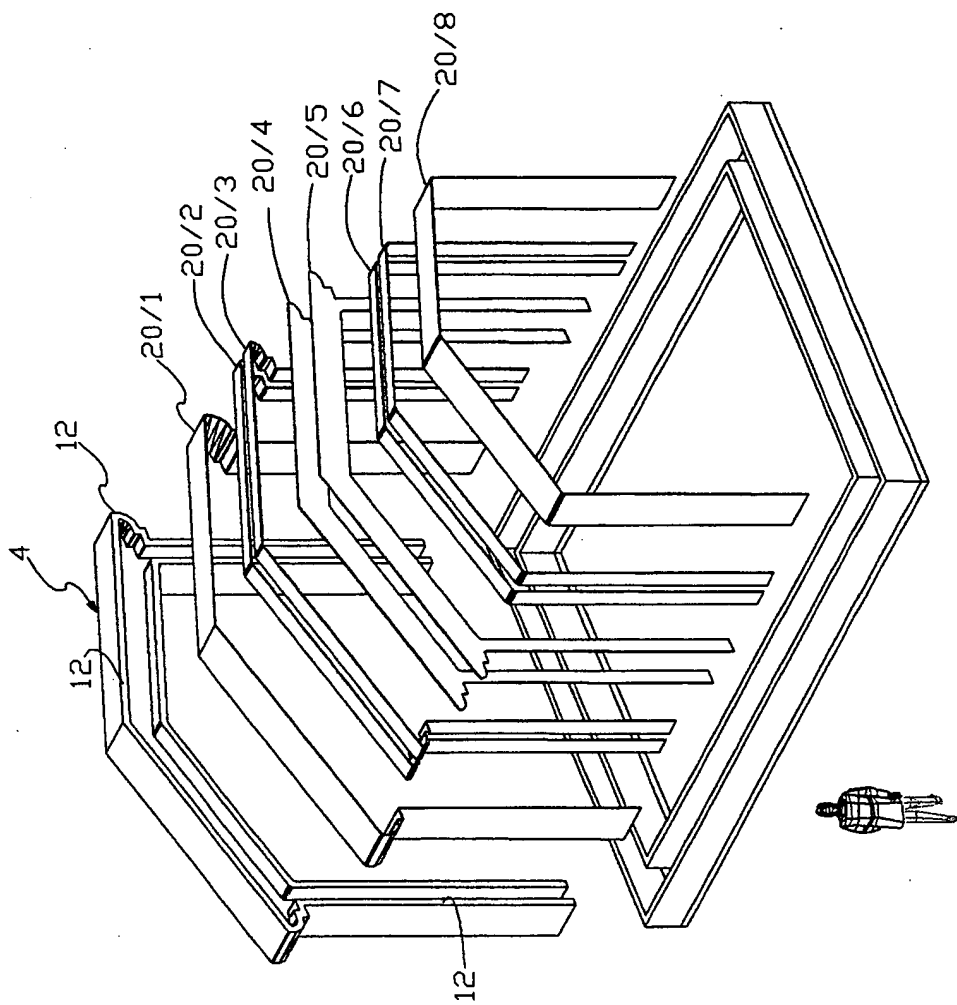


Fig. 9

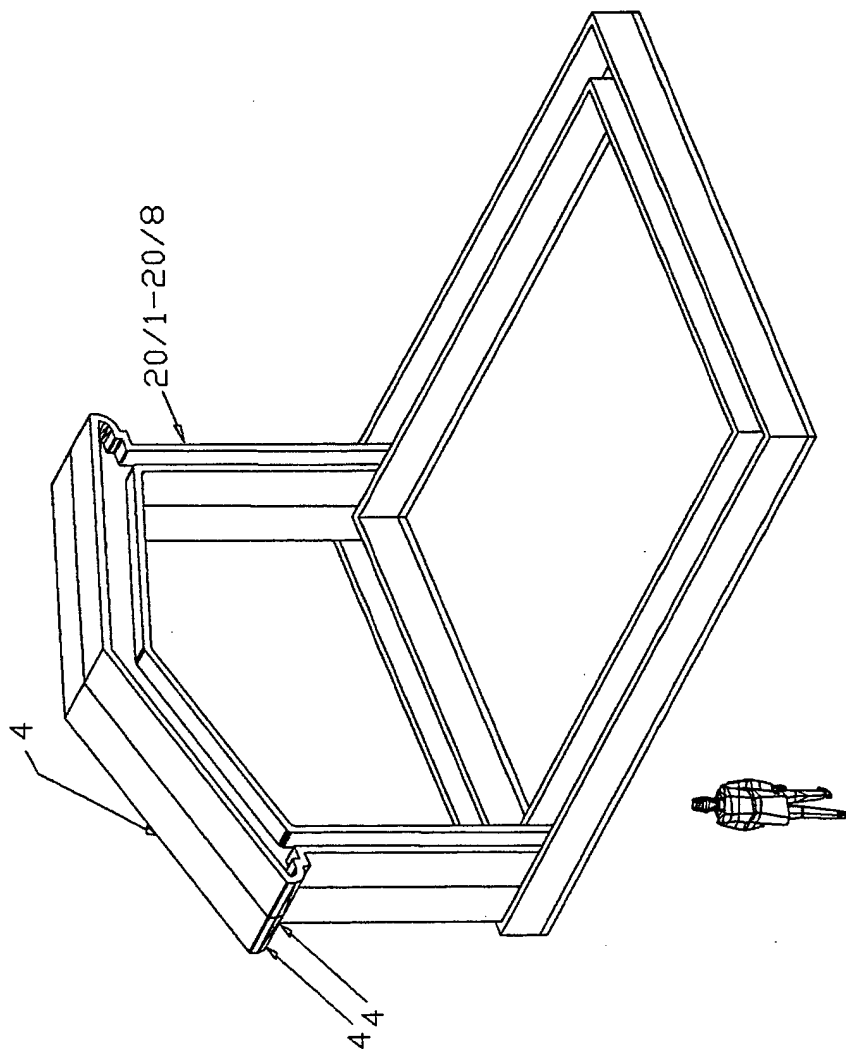


Fig.10

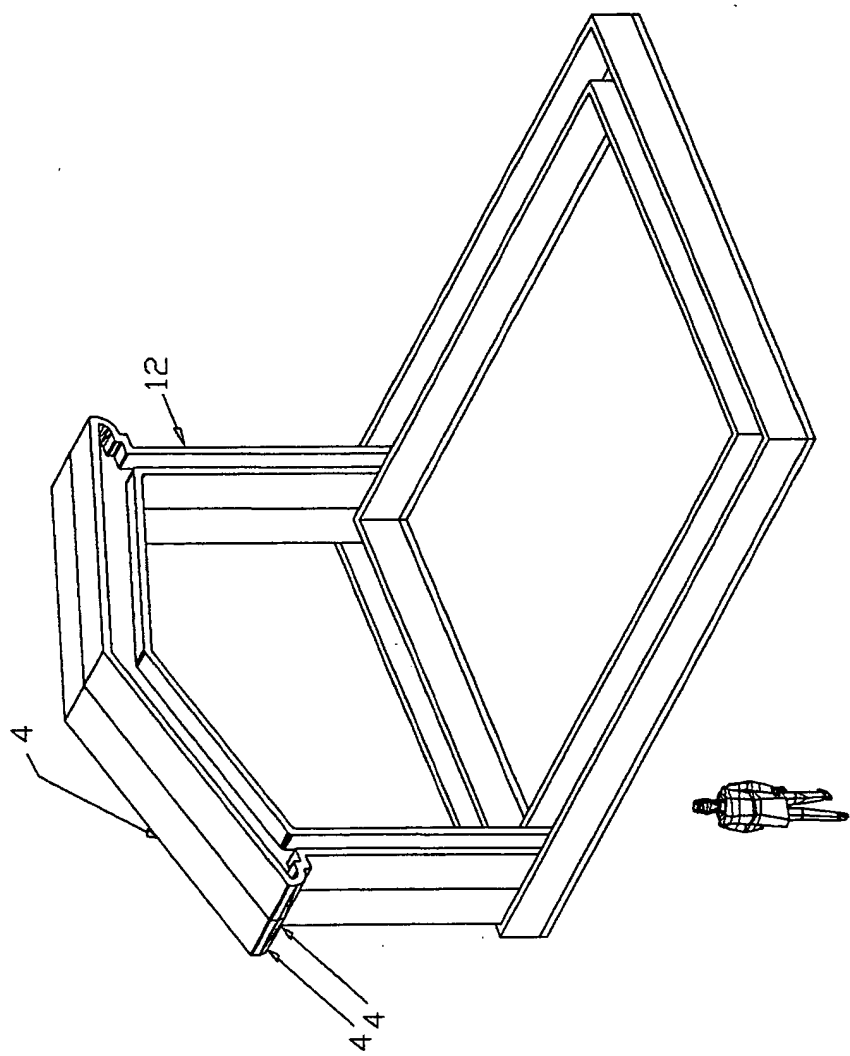


Fig.11

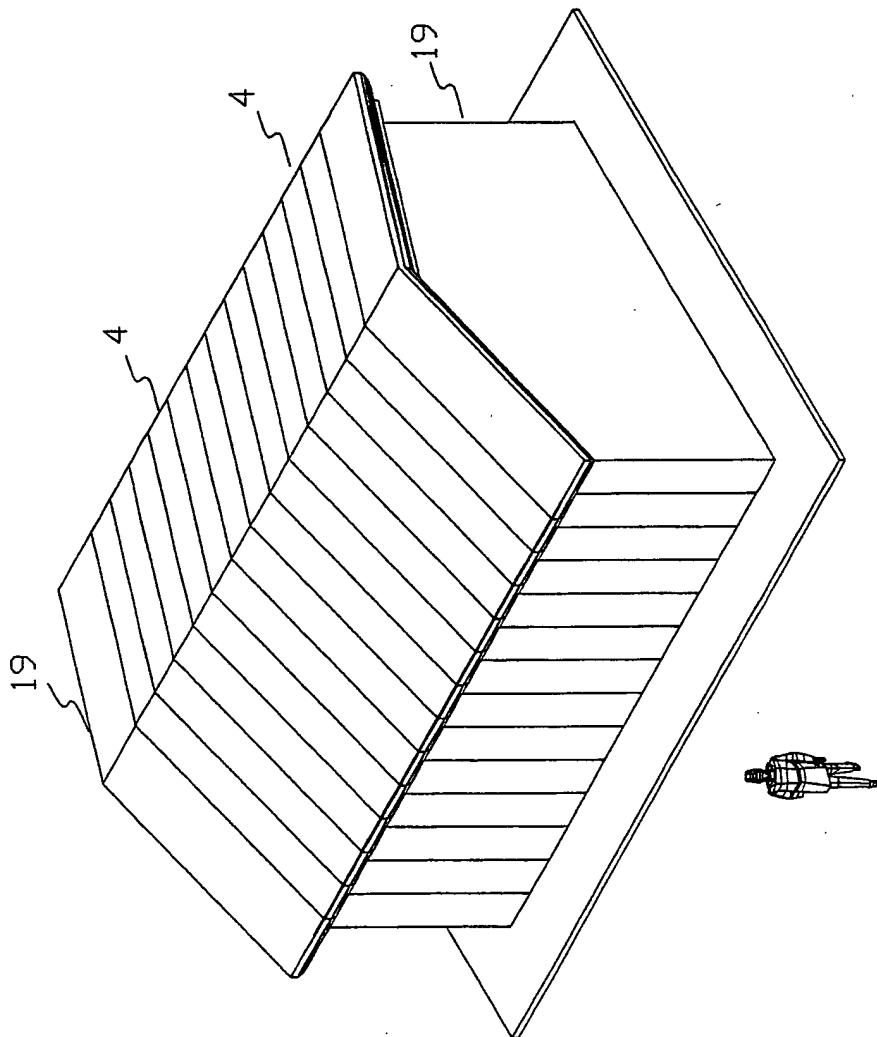


Fig.12

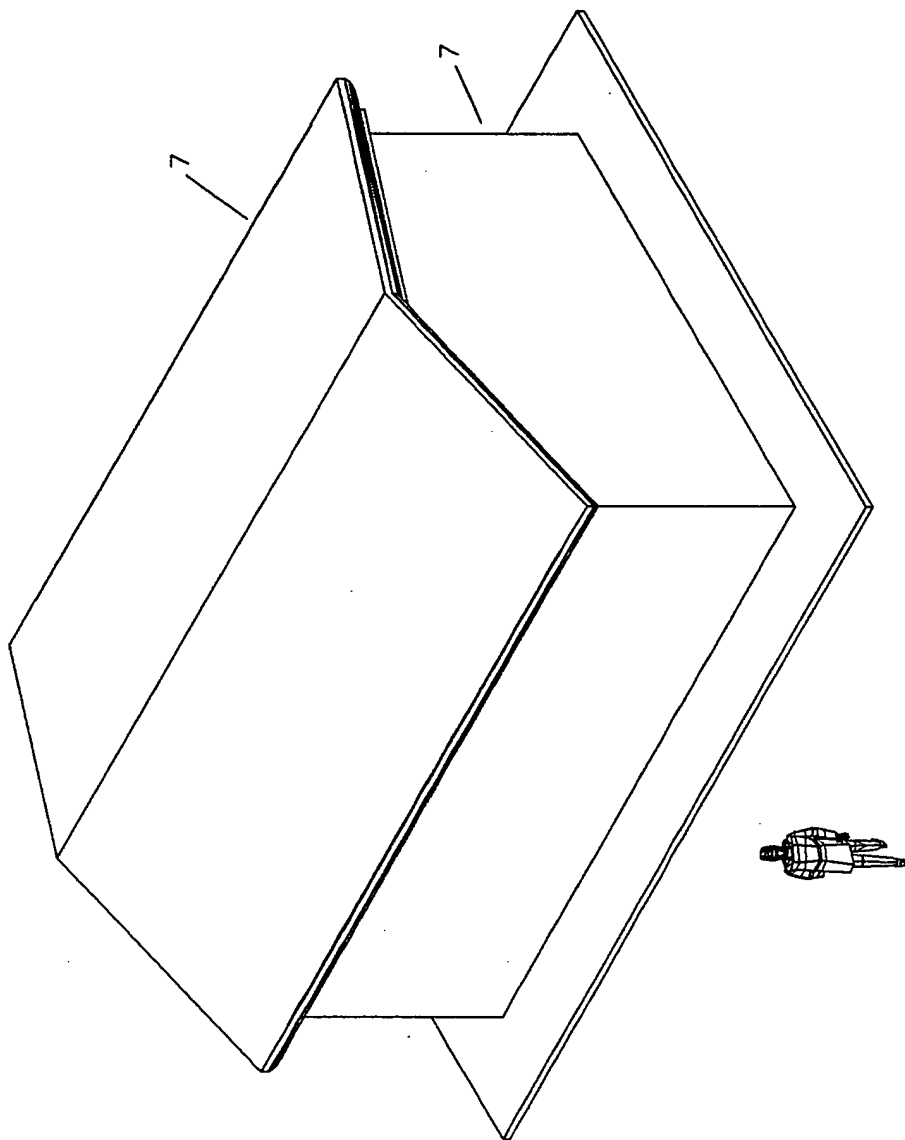


Fig.13

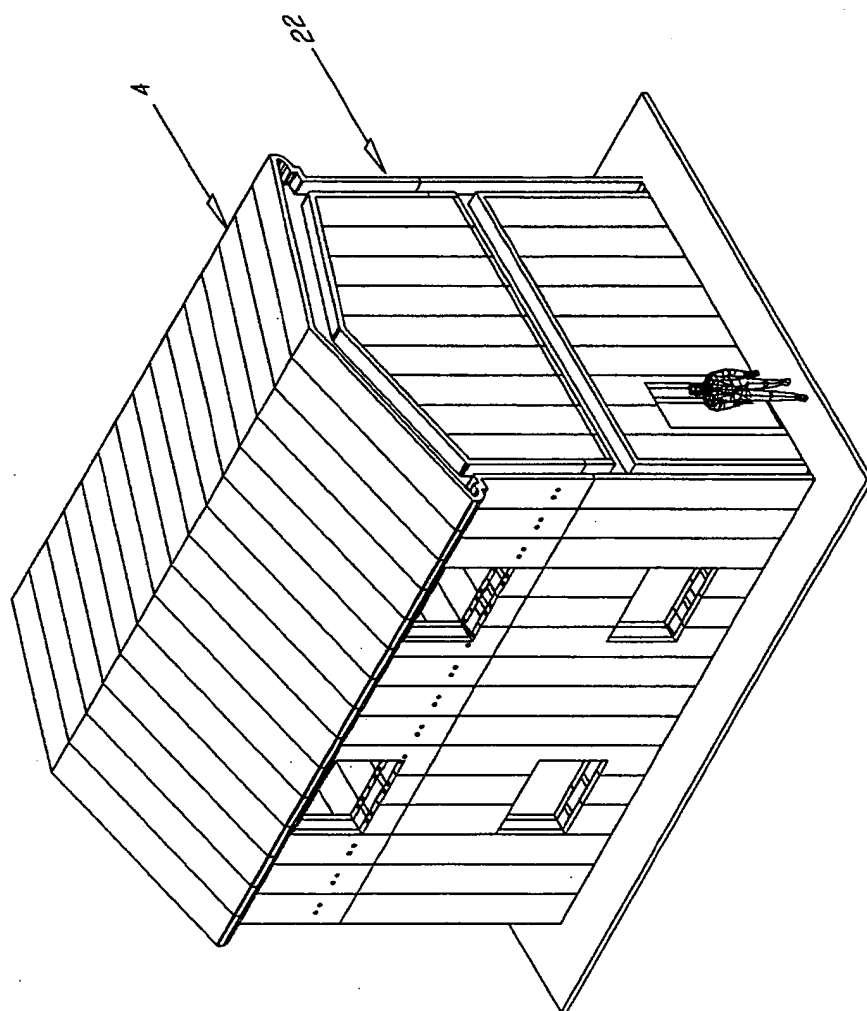


Fig.14

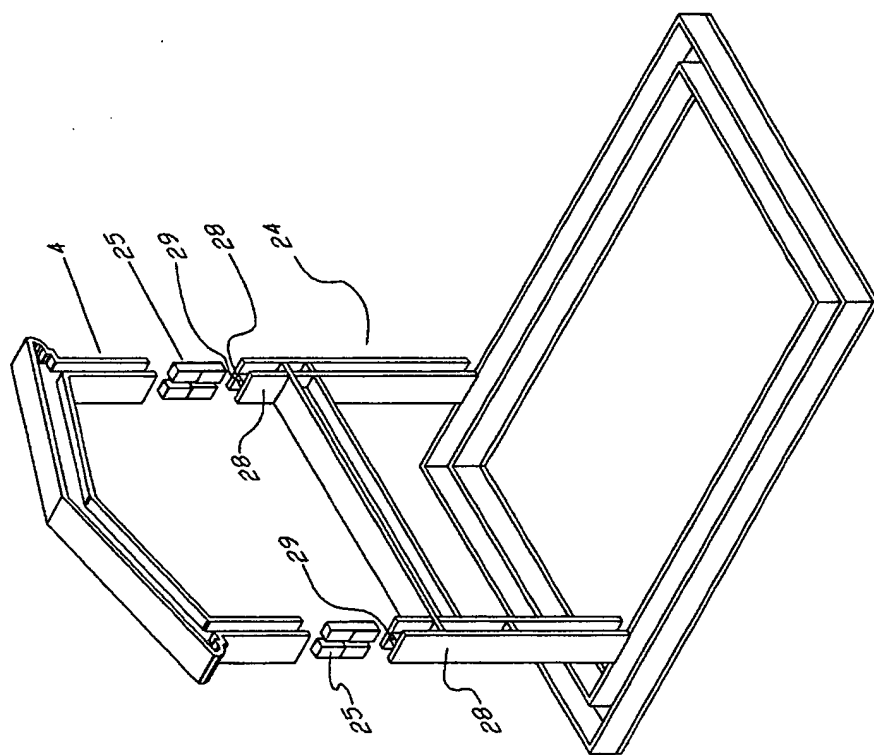


Fig.15

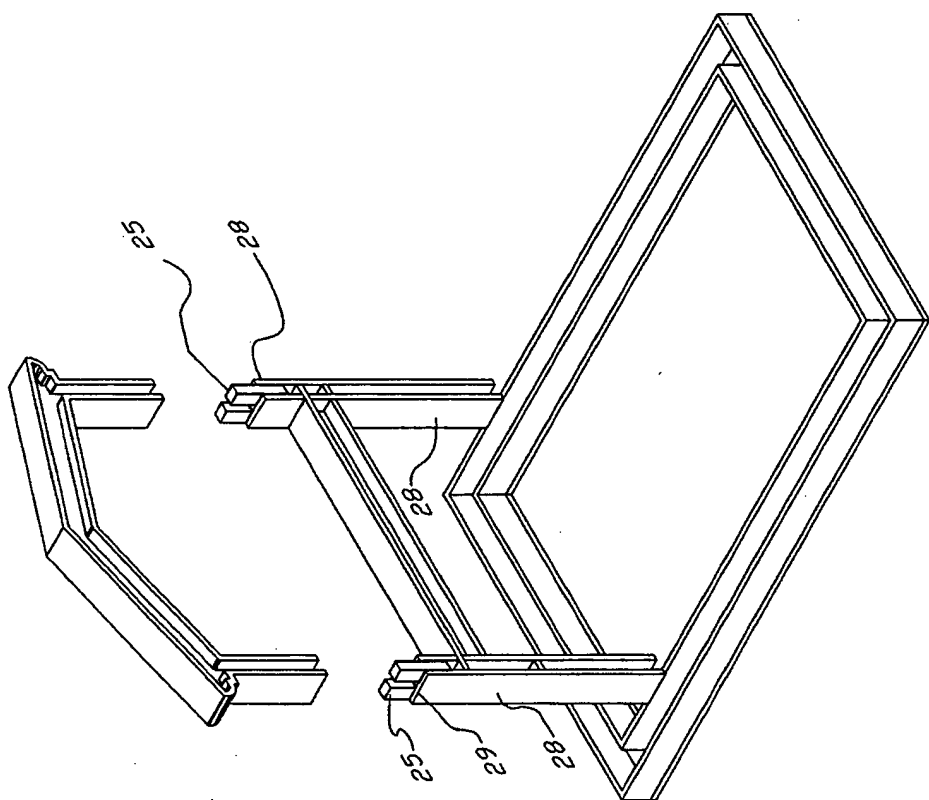


Fig.16

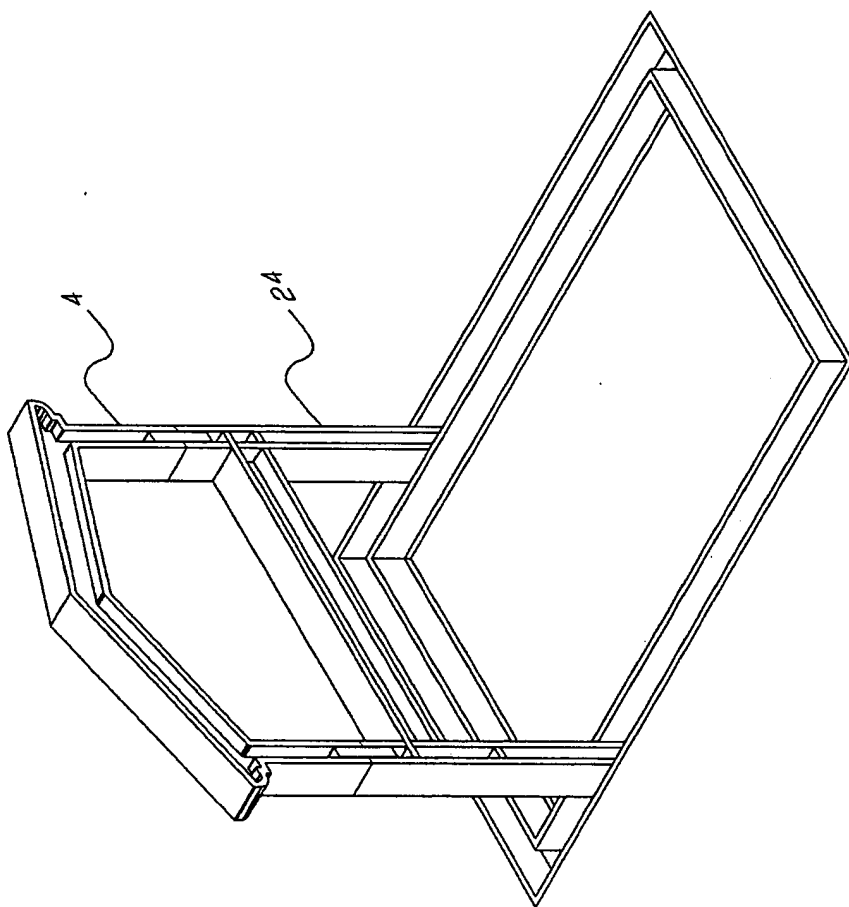


Fig.17

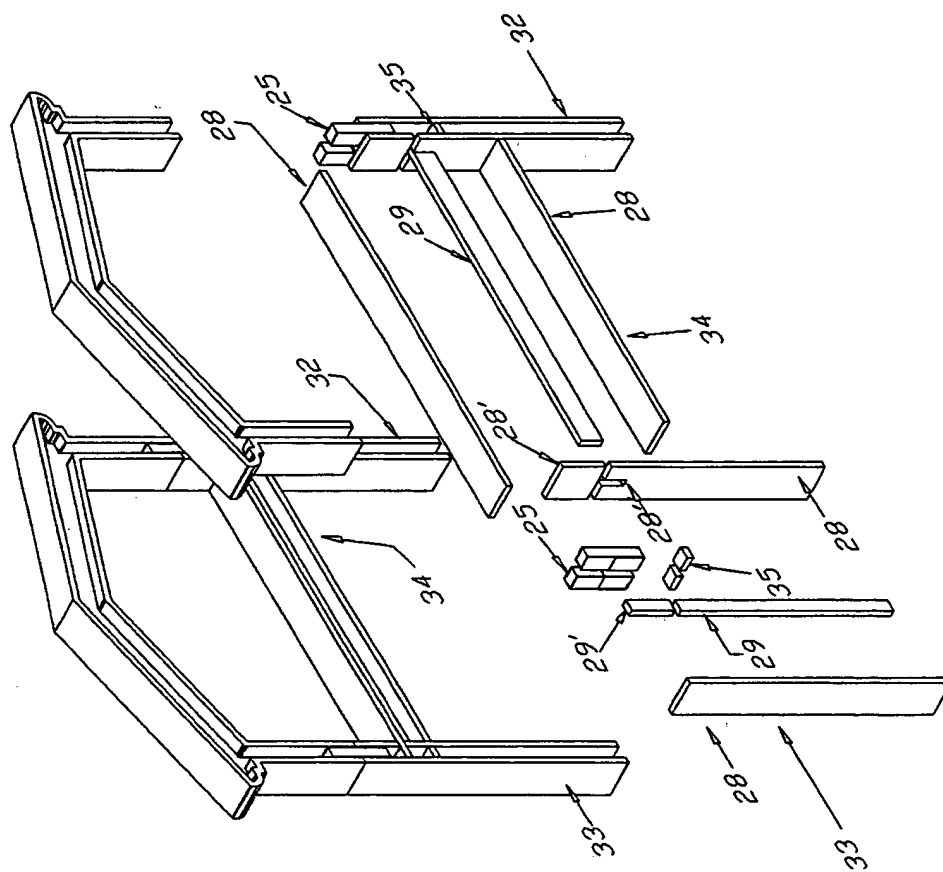


Fig.18

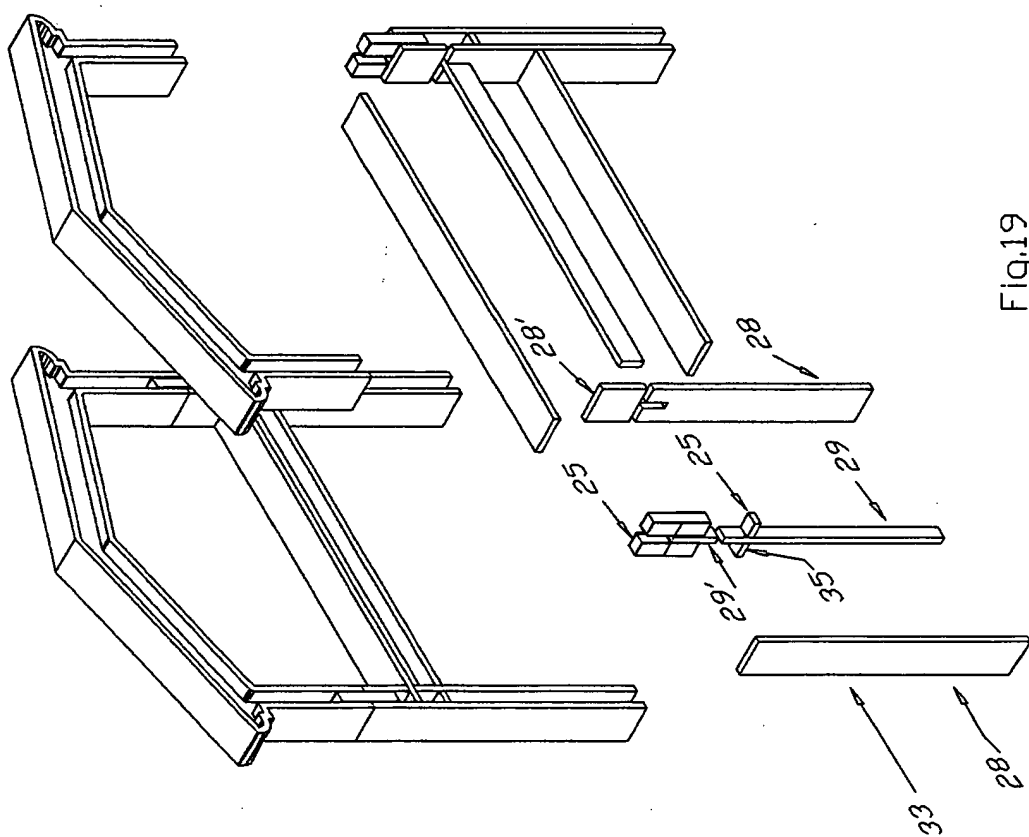


Fig.19

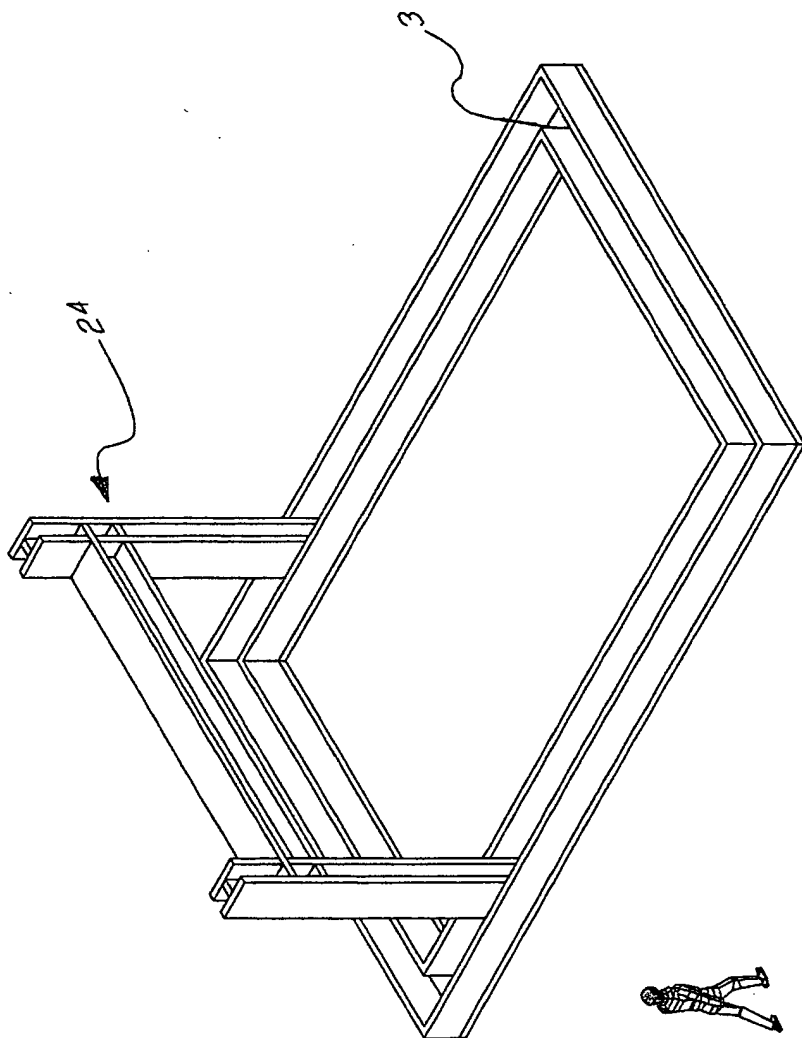


Fig. 20

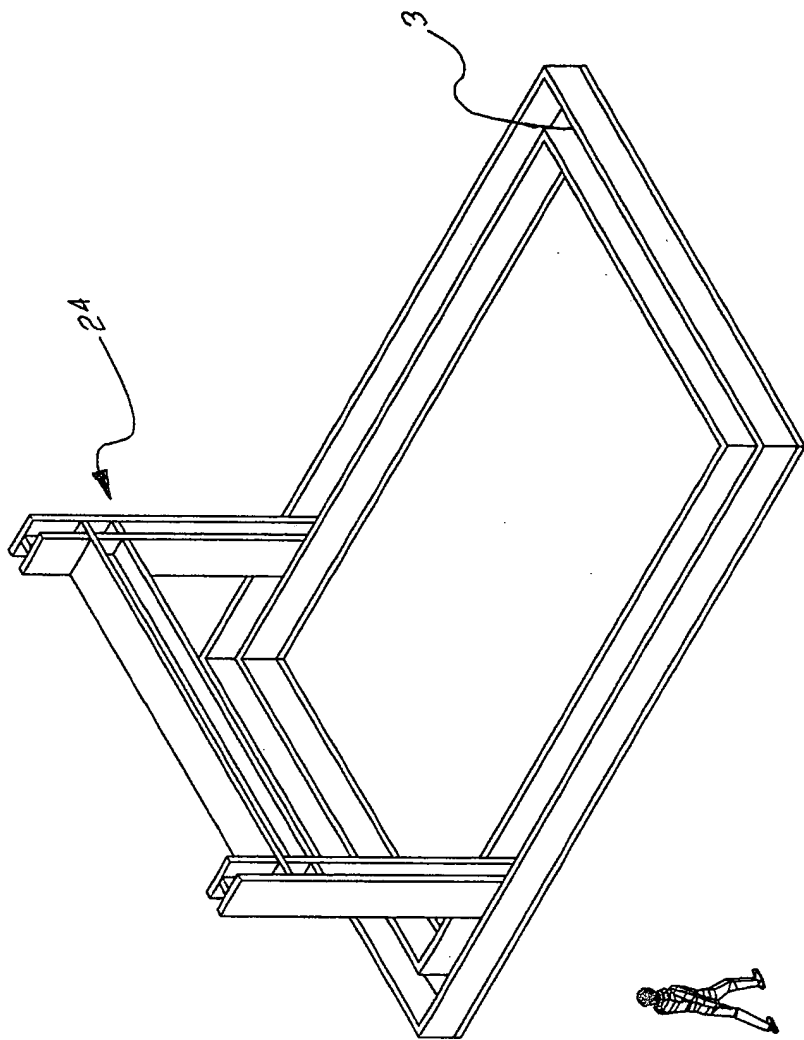


Fig. 21

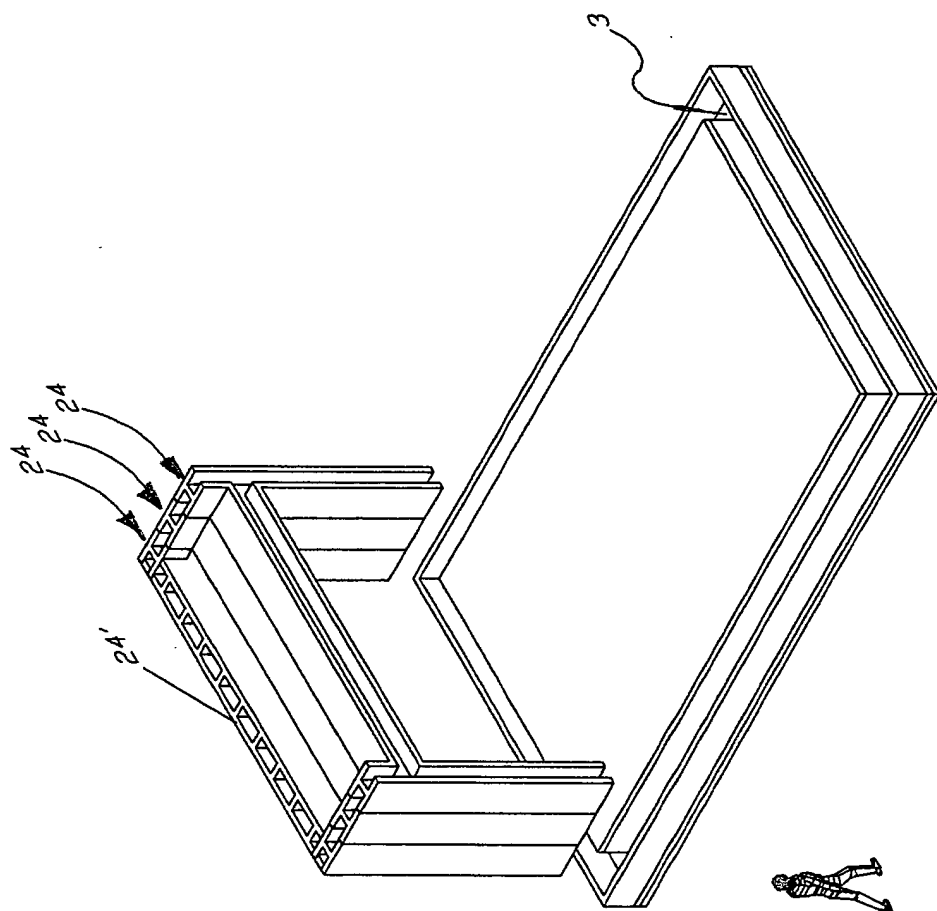


Fig. 22

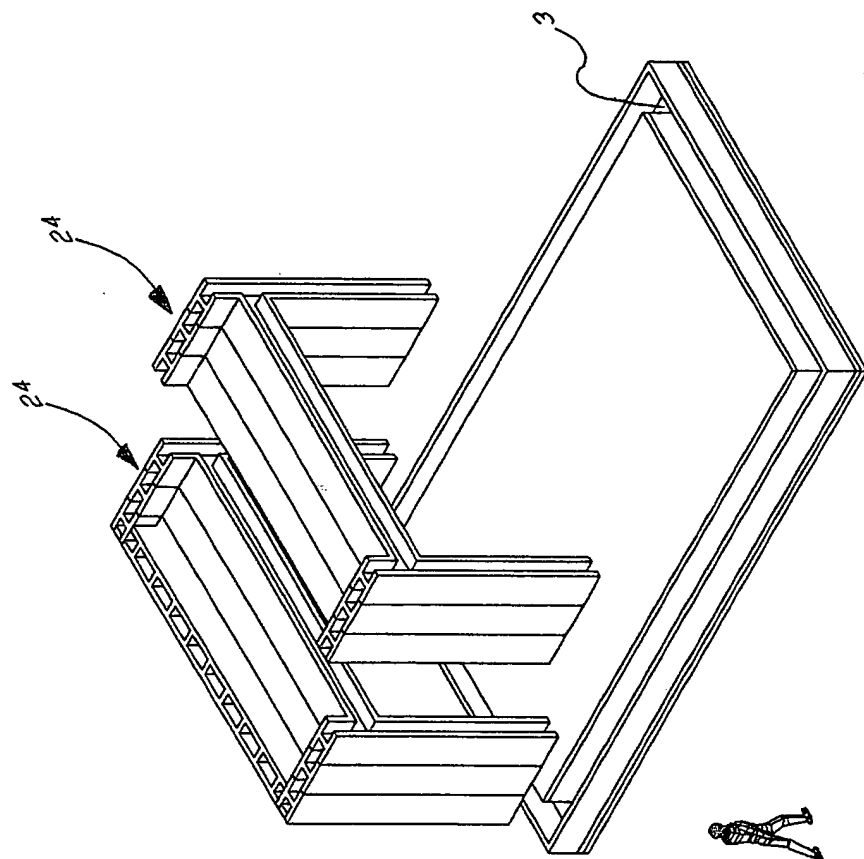


Fig. 23

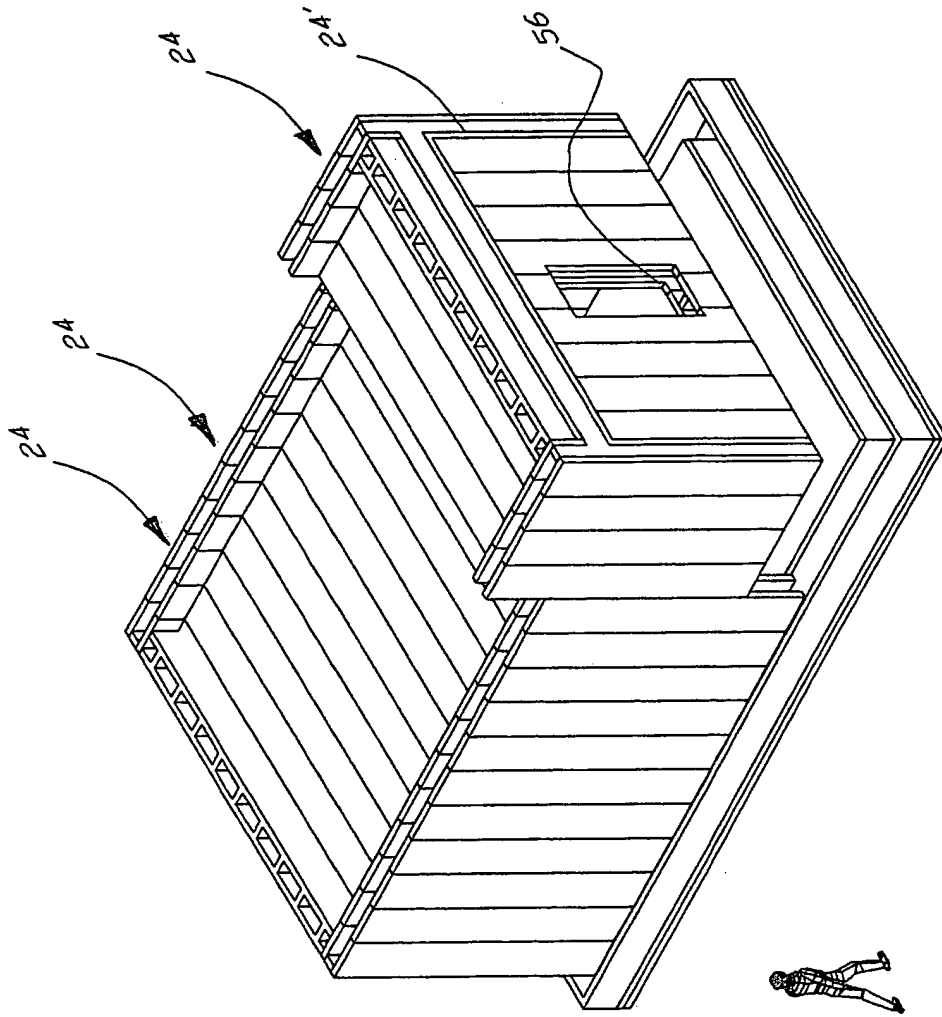


Fig. 24

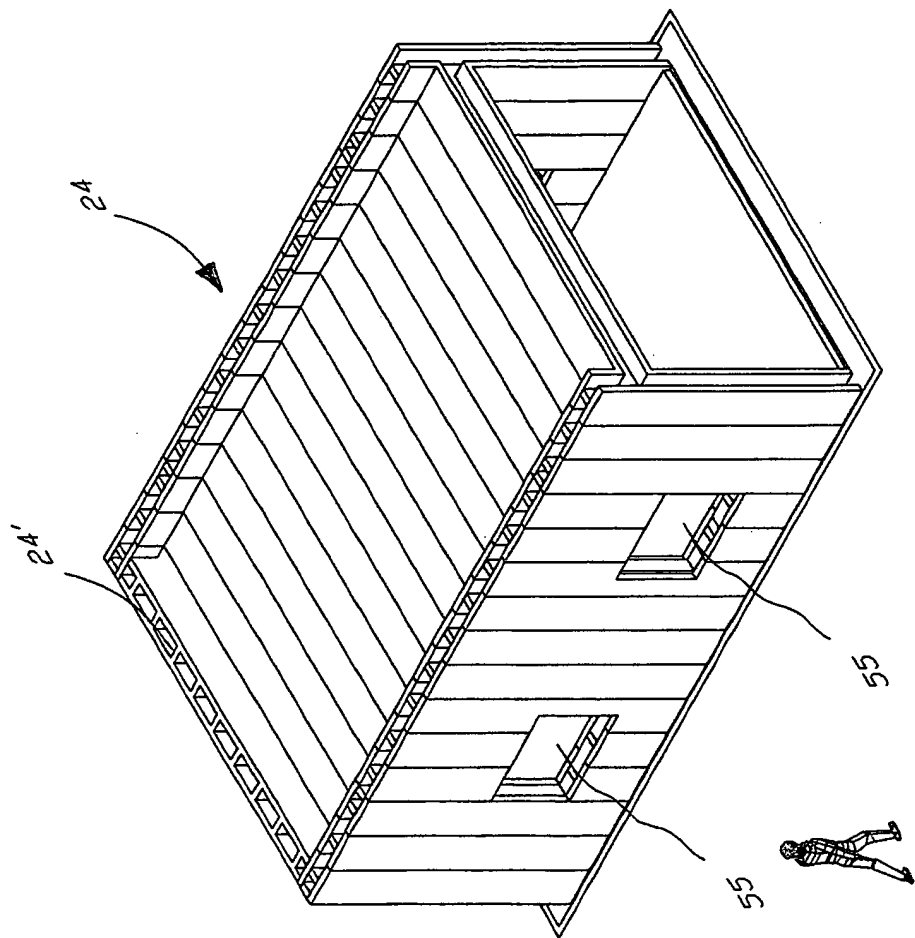


Fig.25

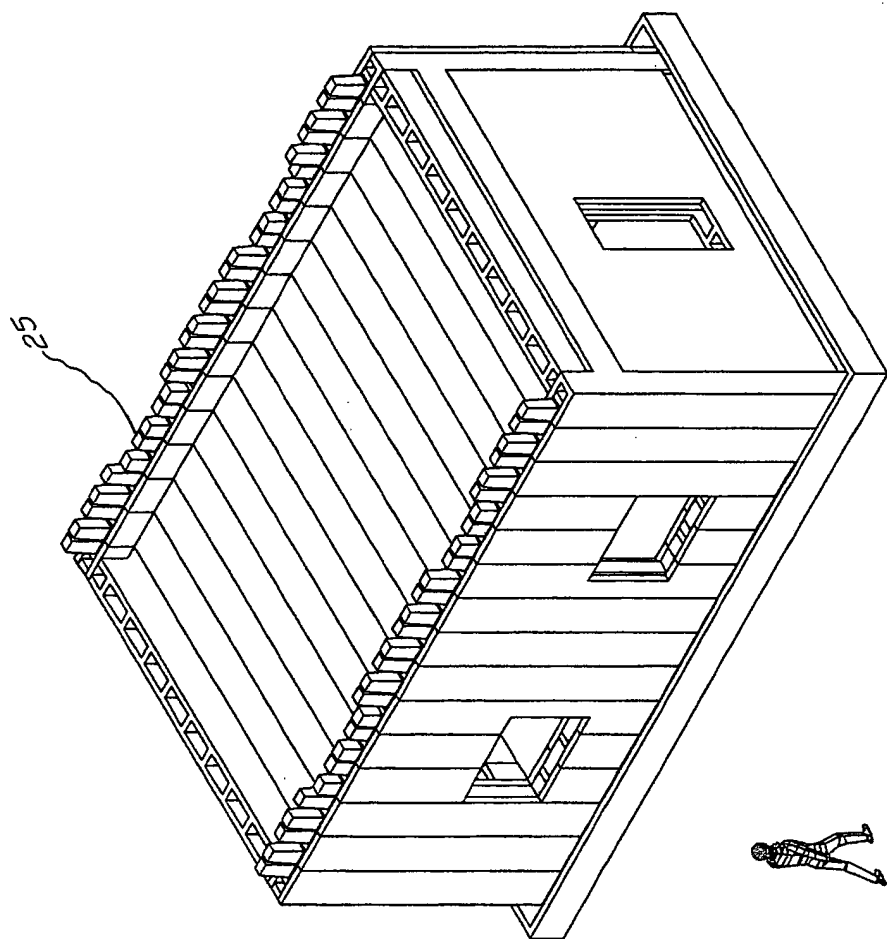


Fig.26

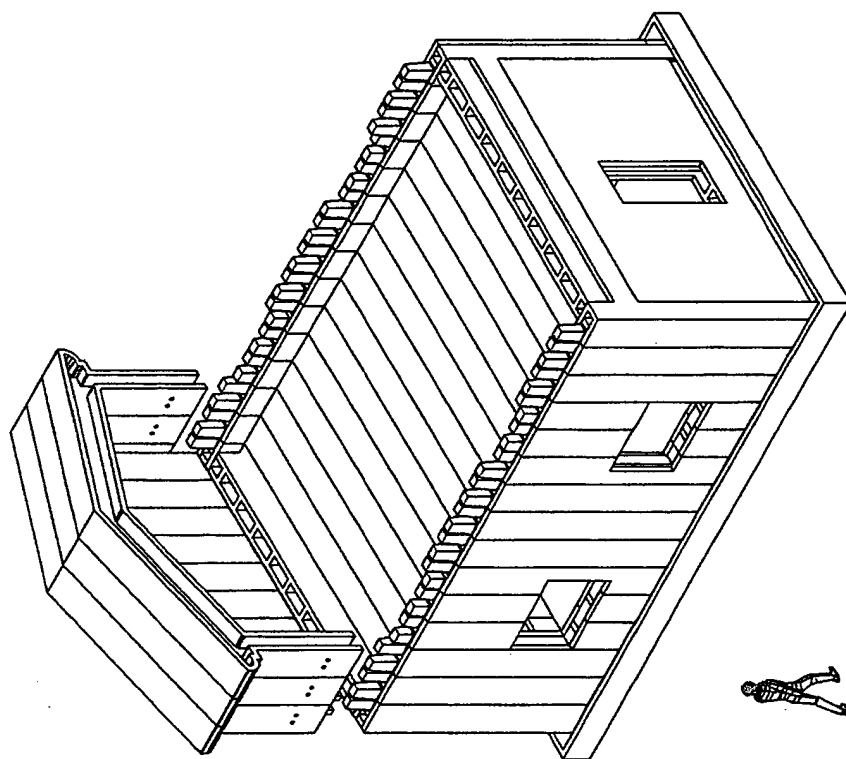


Fig. 27

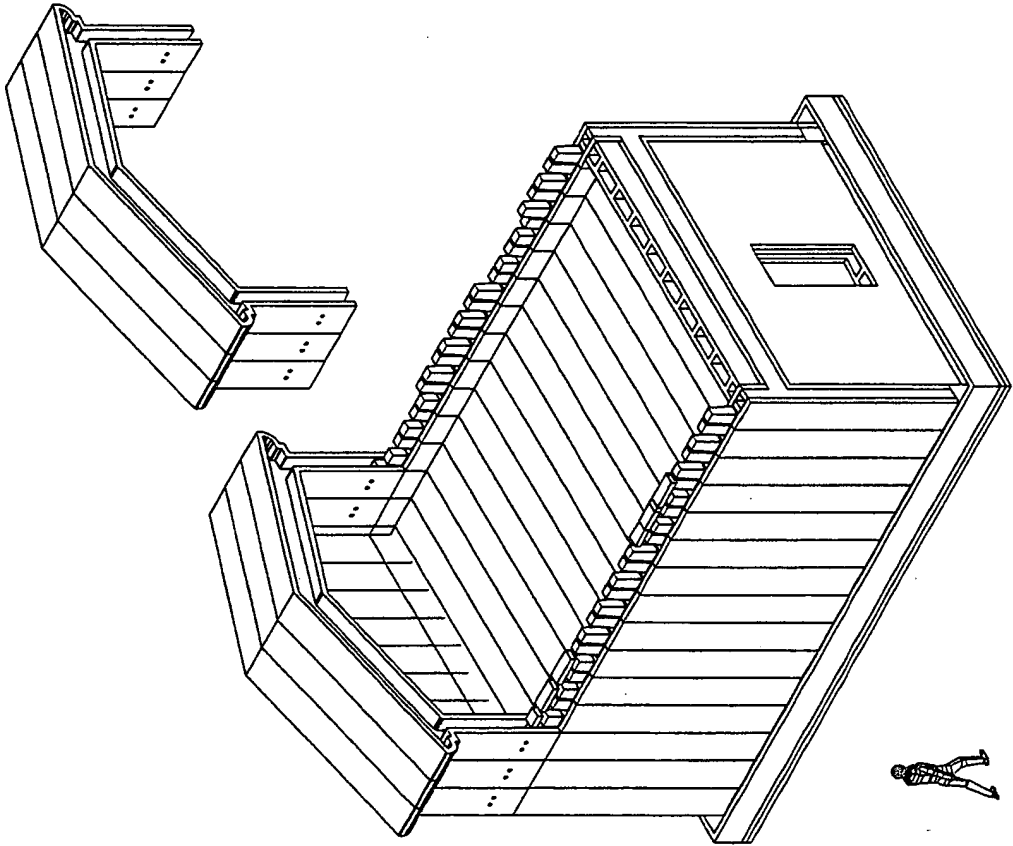


Fig. 28

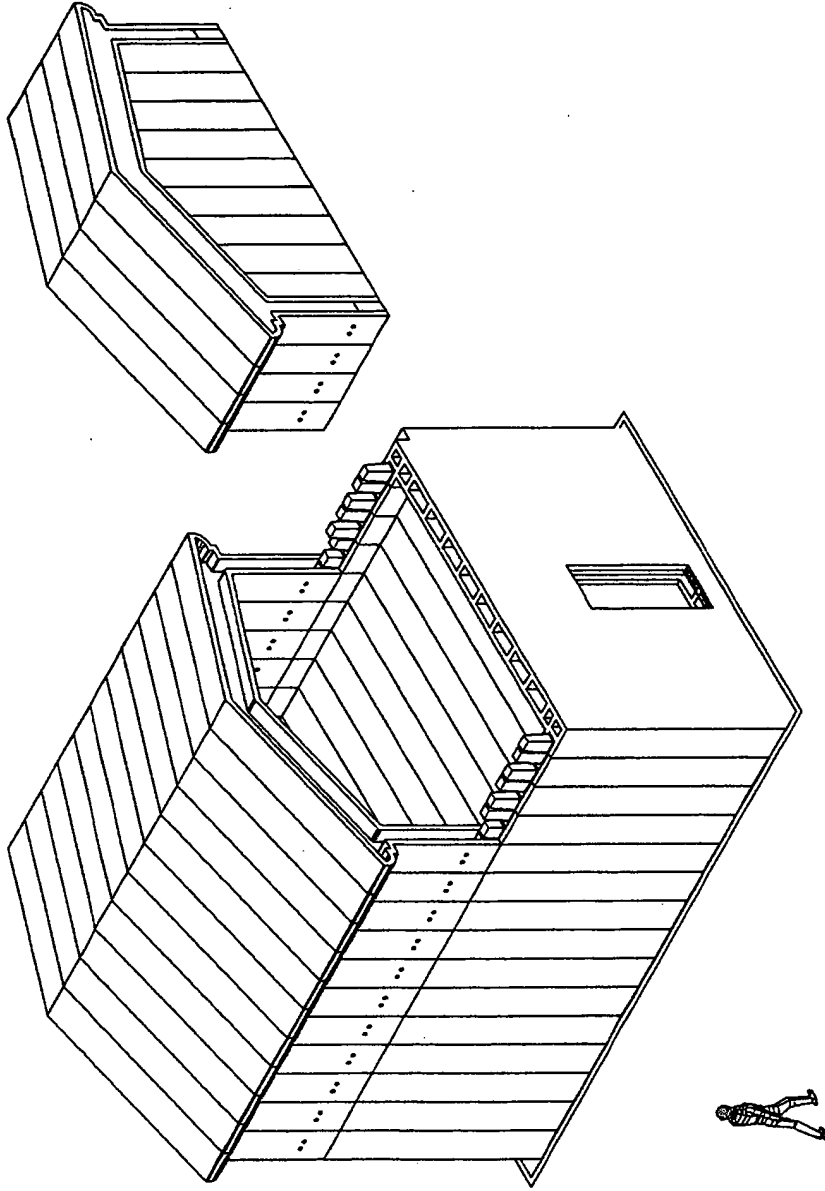


Fig. 29

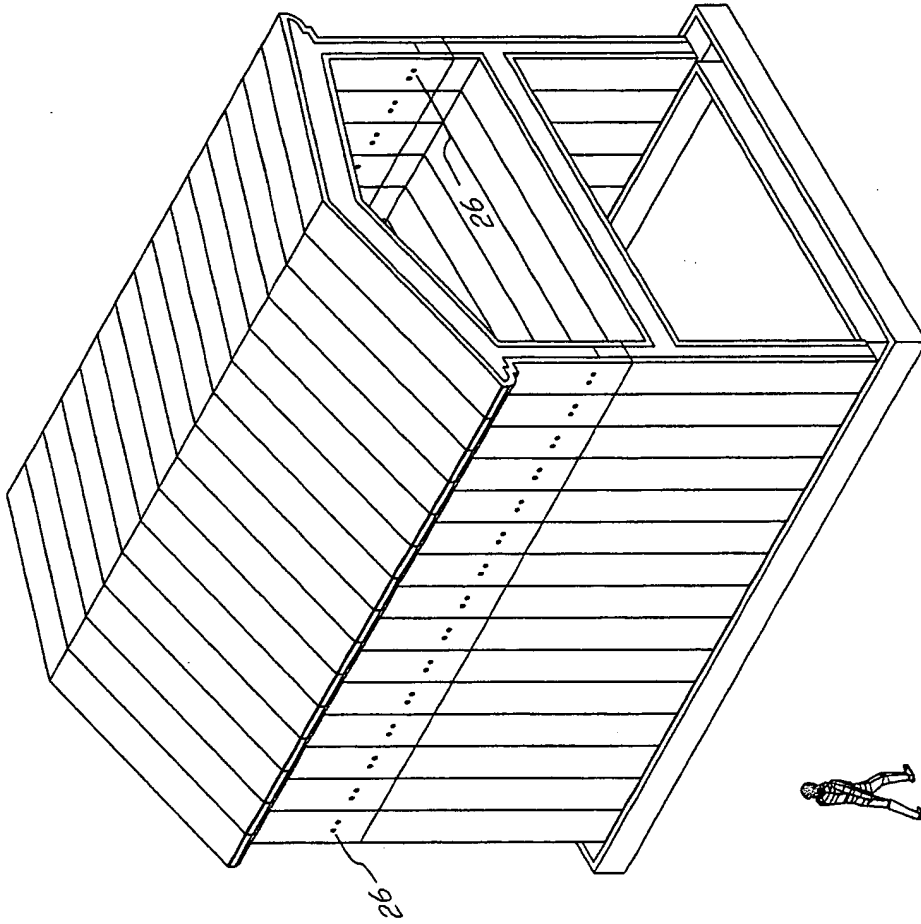


Fig. 29A

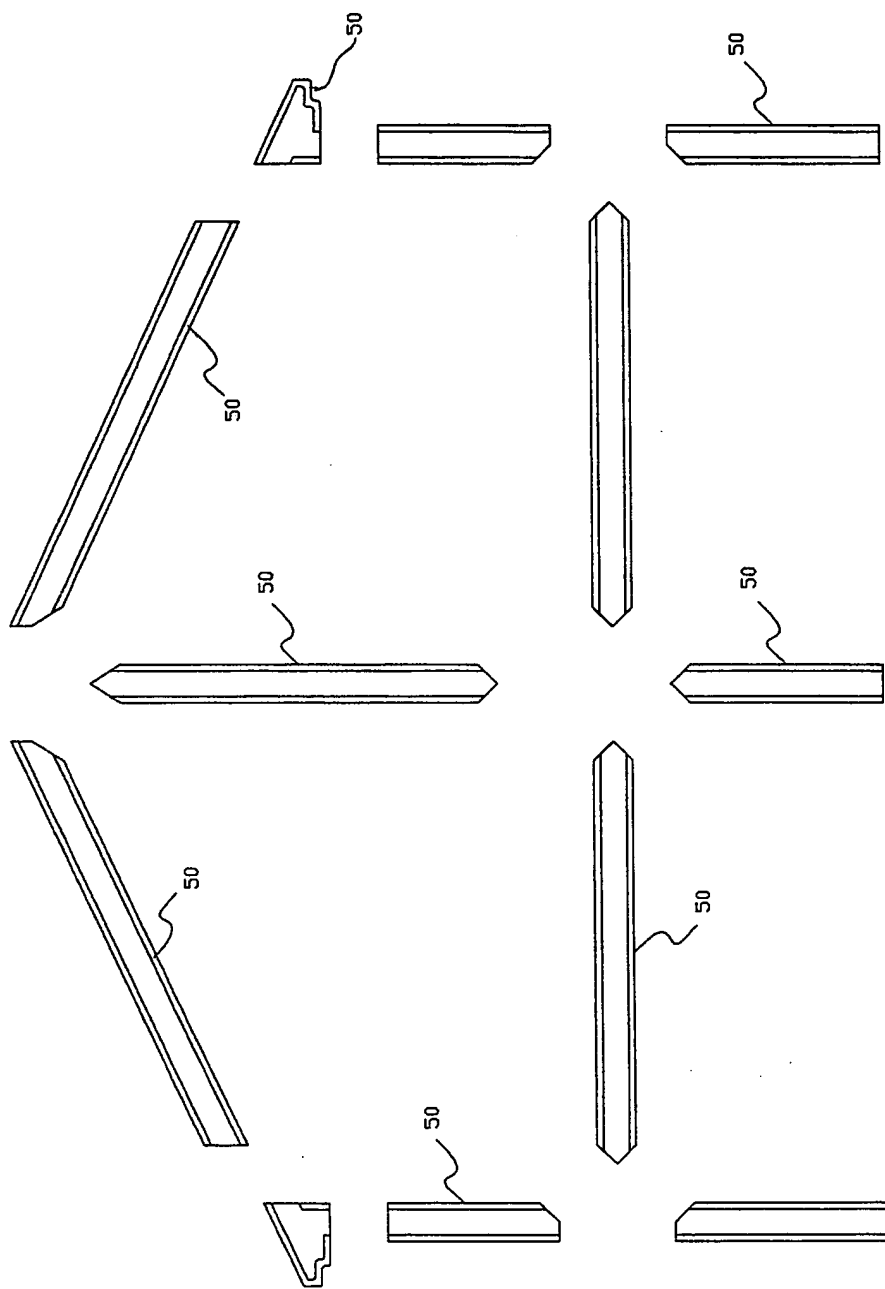


Fig. 30

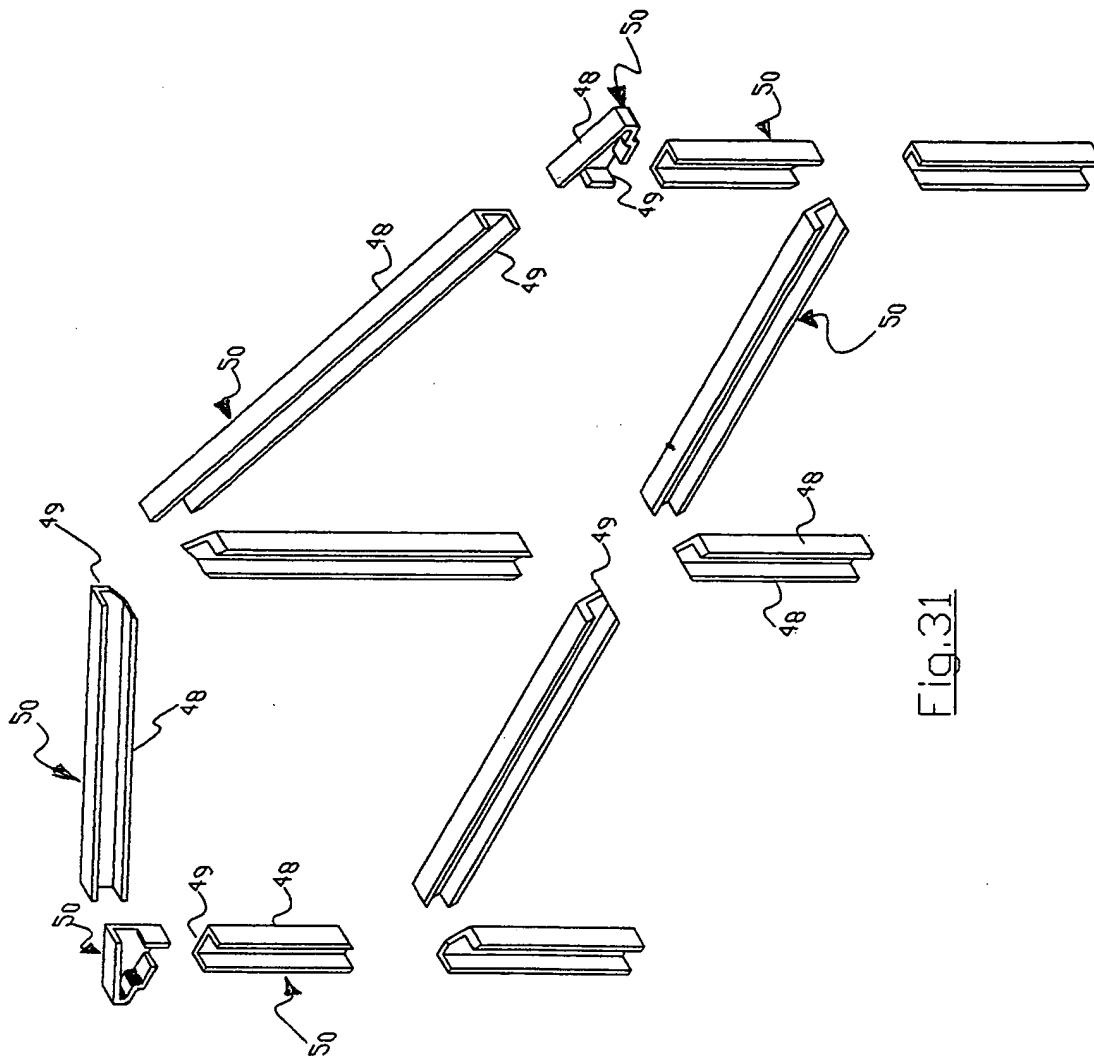


Fig.31

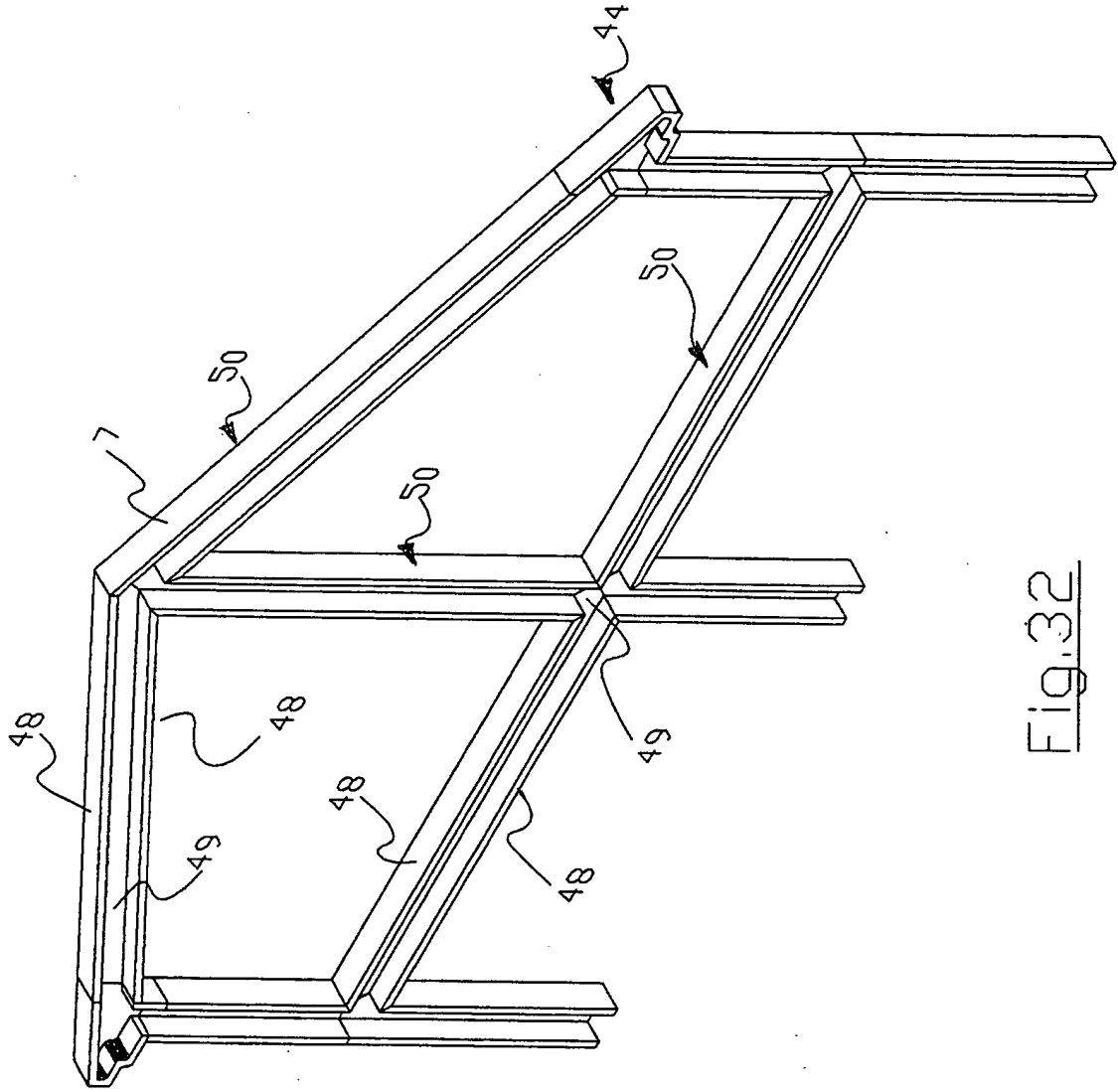


Fig. 32

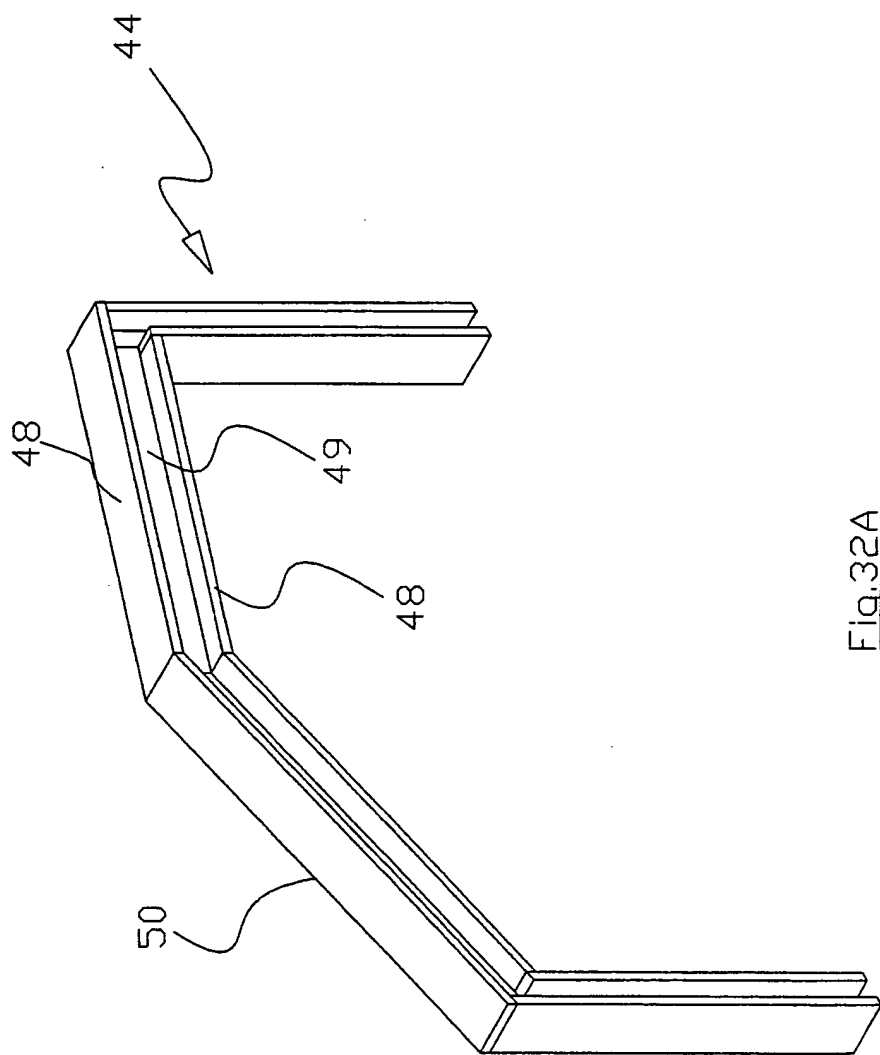


Fig.32A

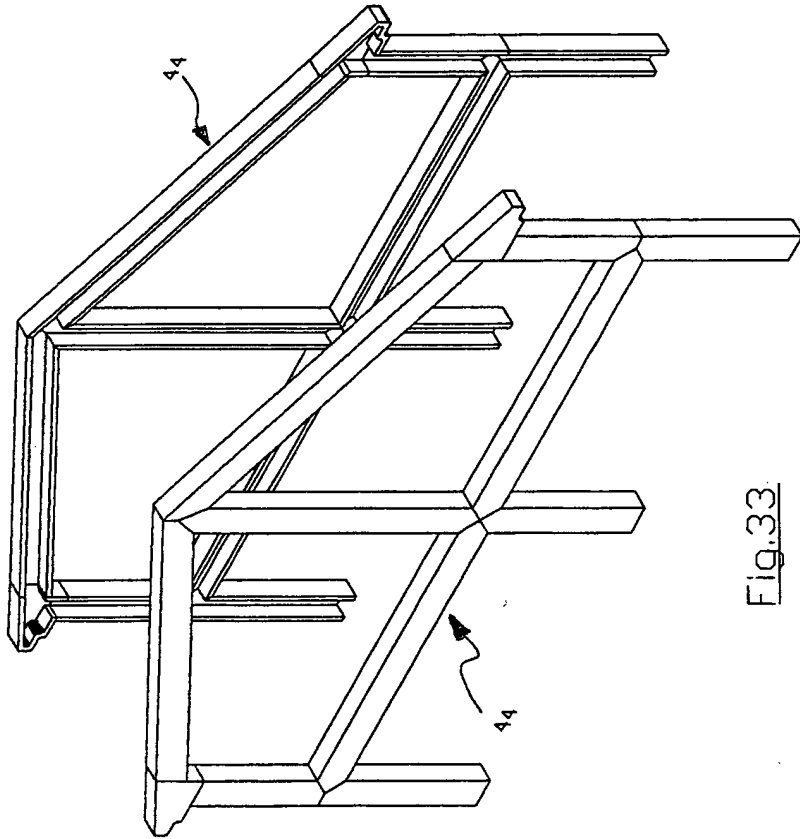


Fig. 33

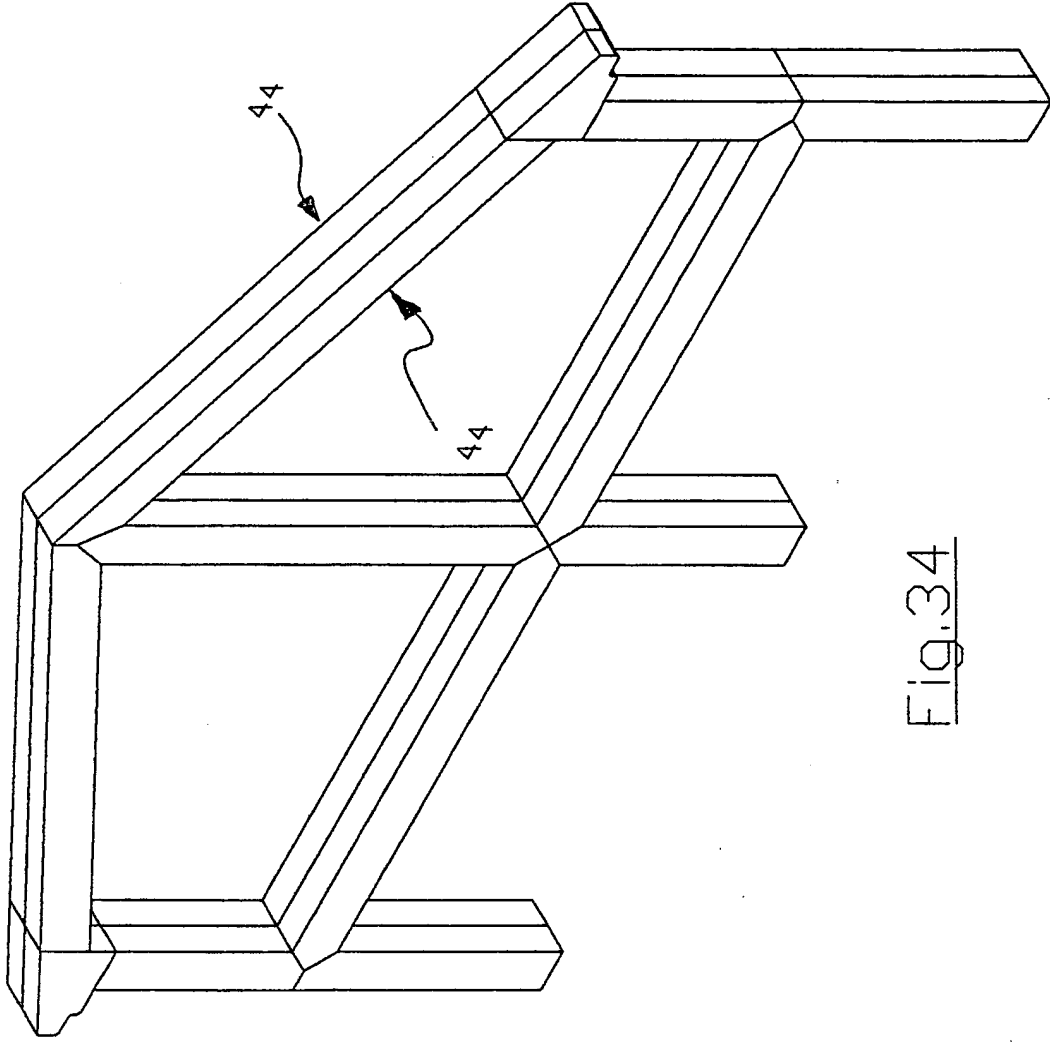


Fig. 34

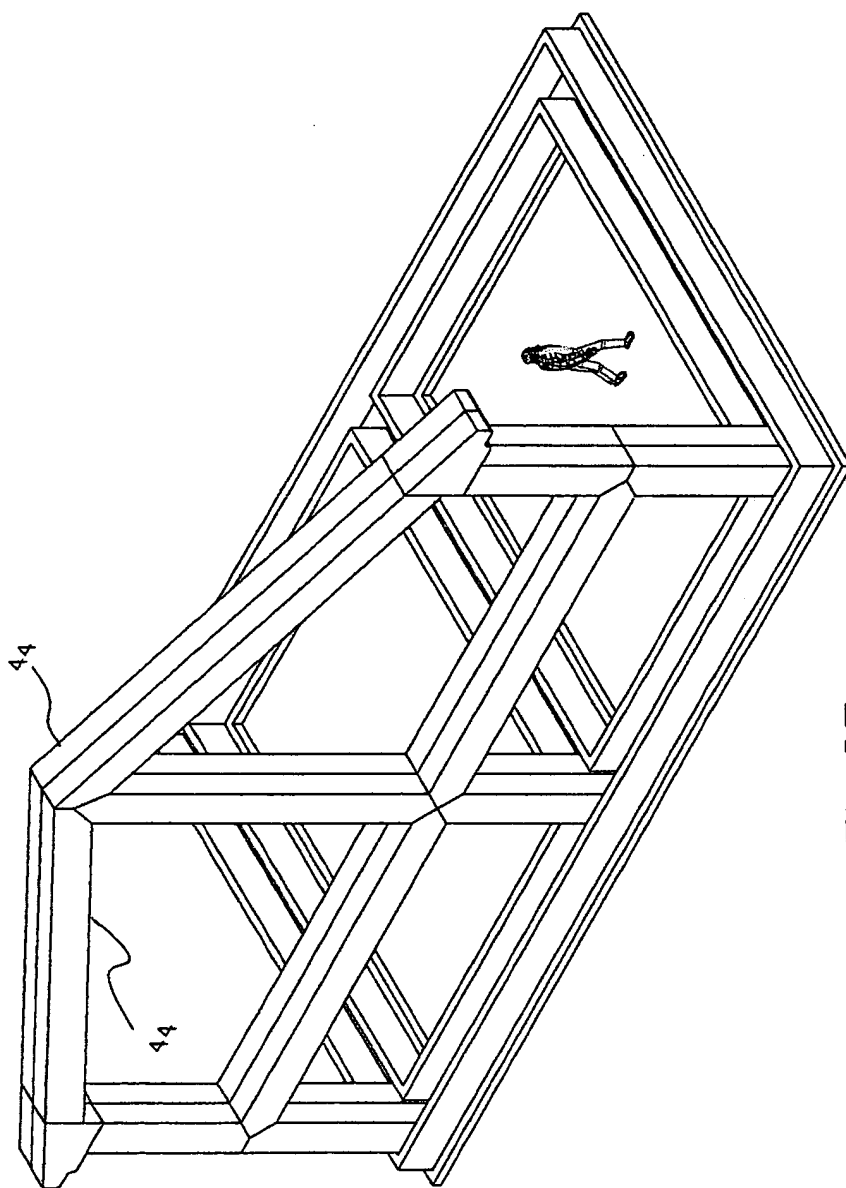


Fig. 35

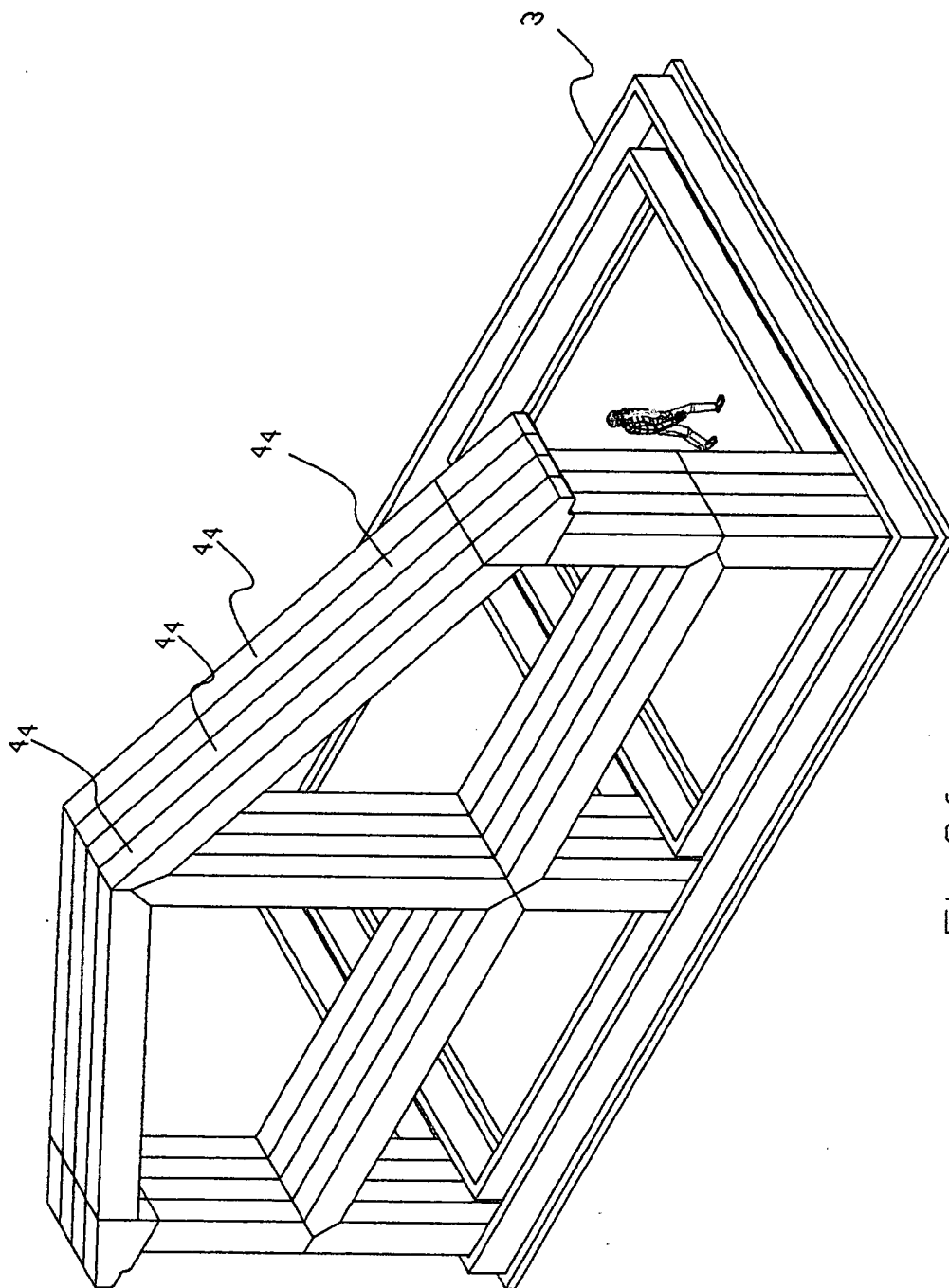


Fig. 36

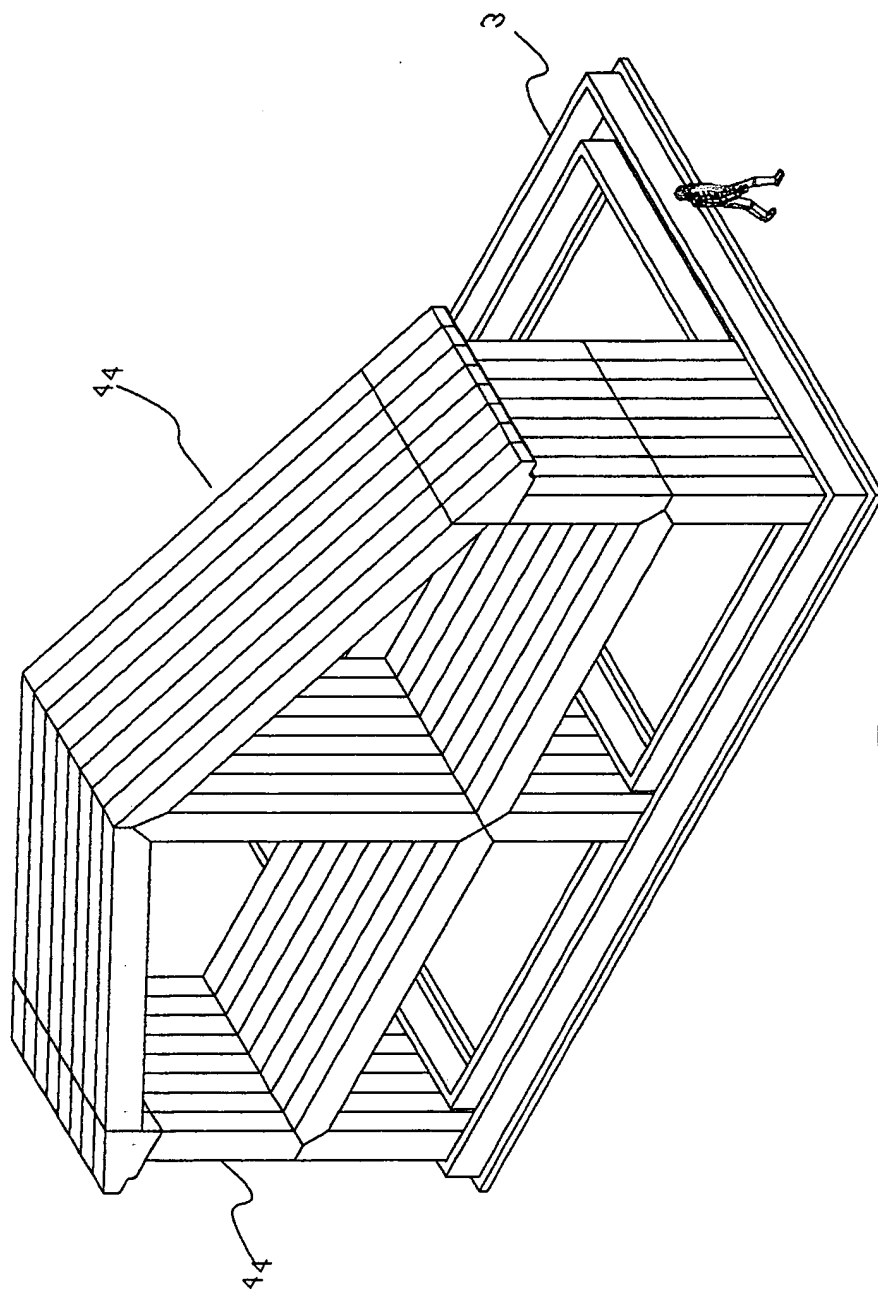


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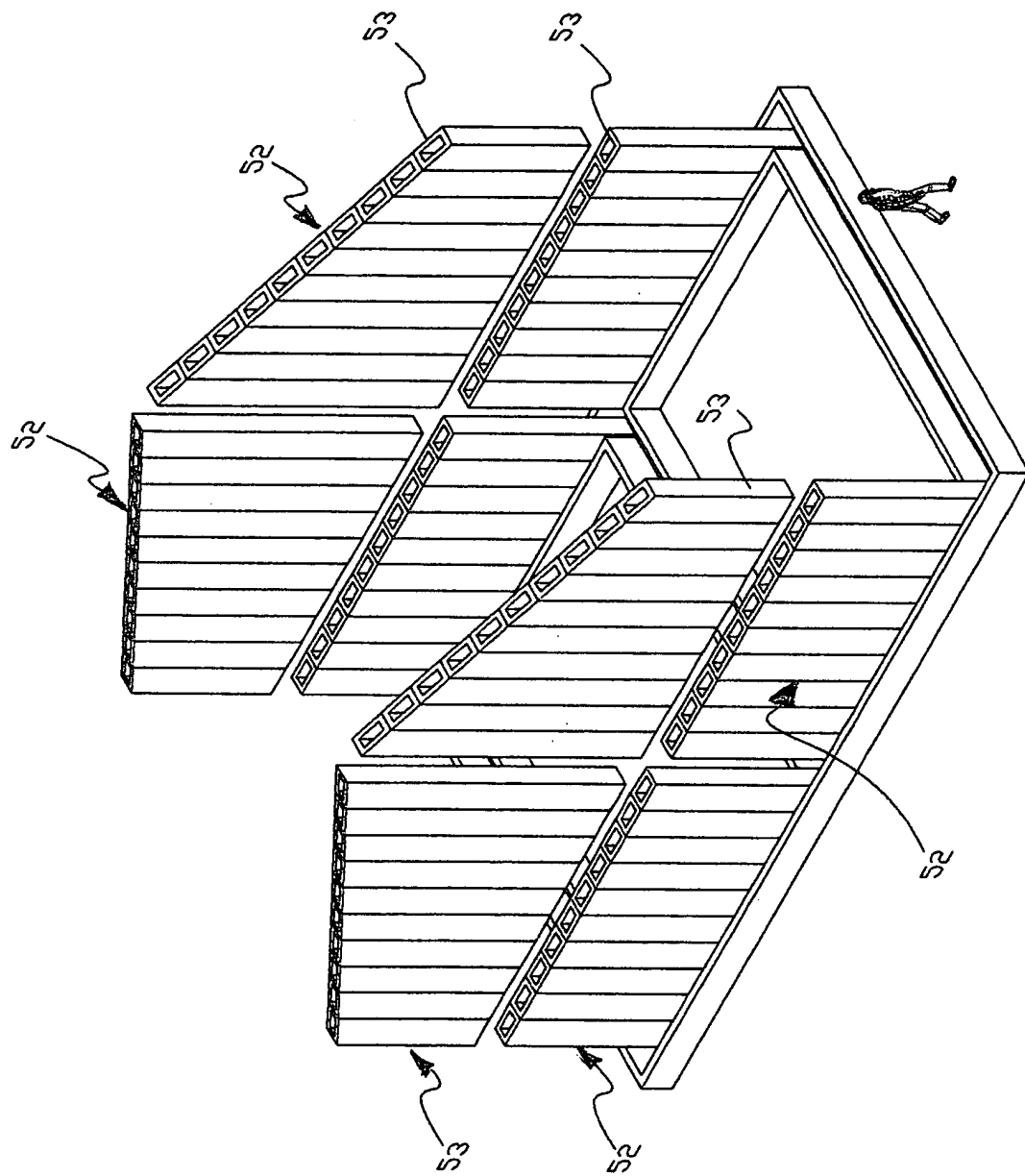


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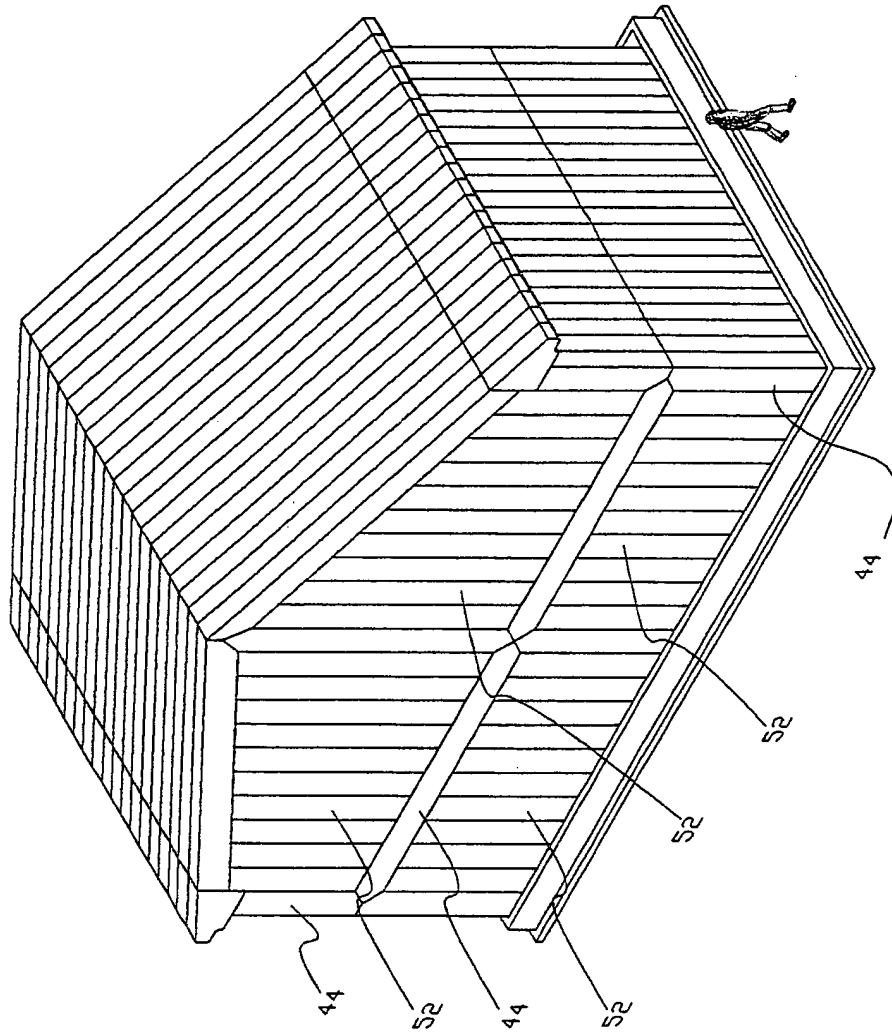


Fig.39

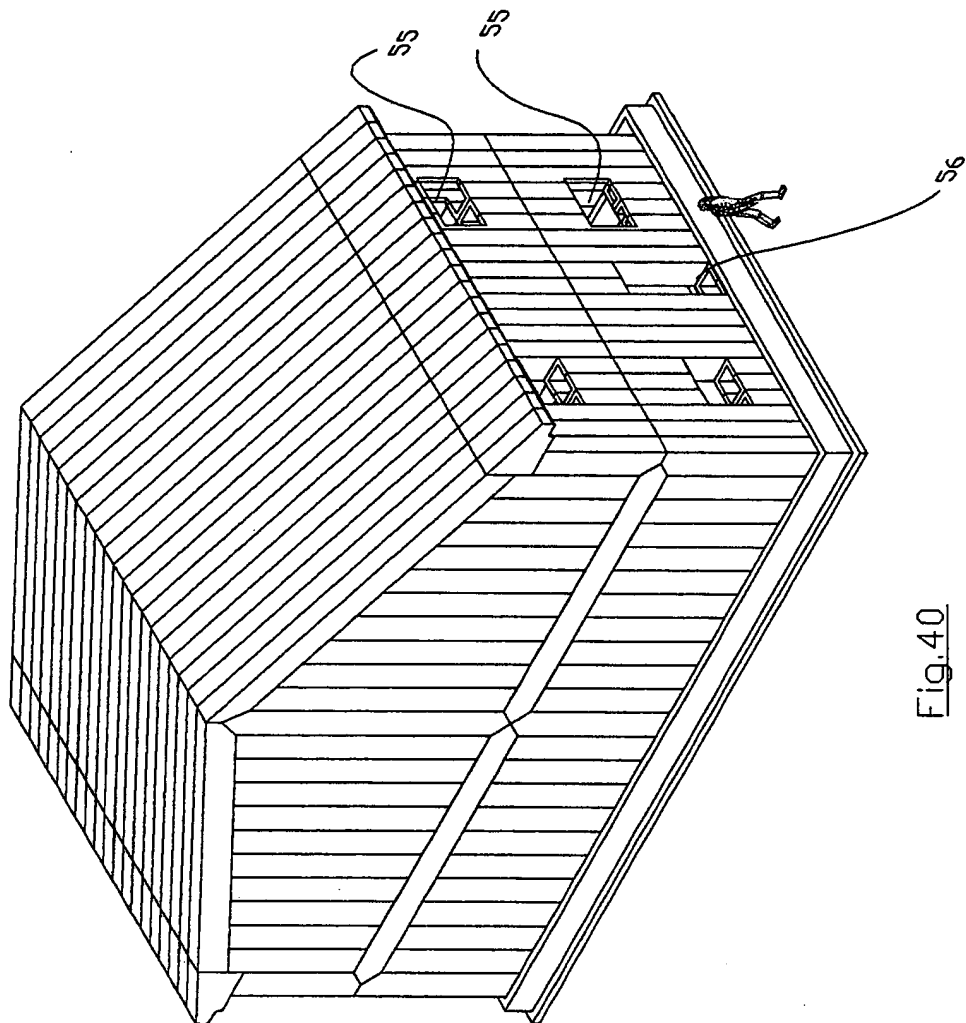


Fig. 40

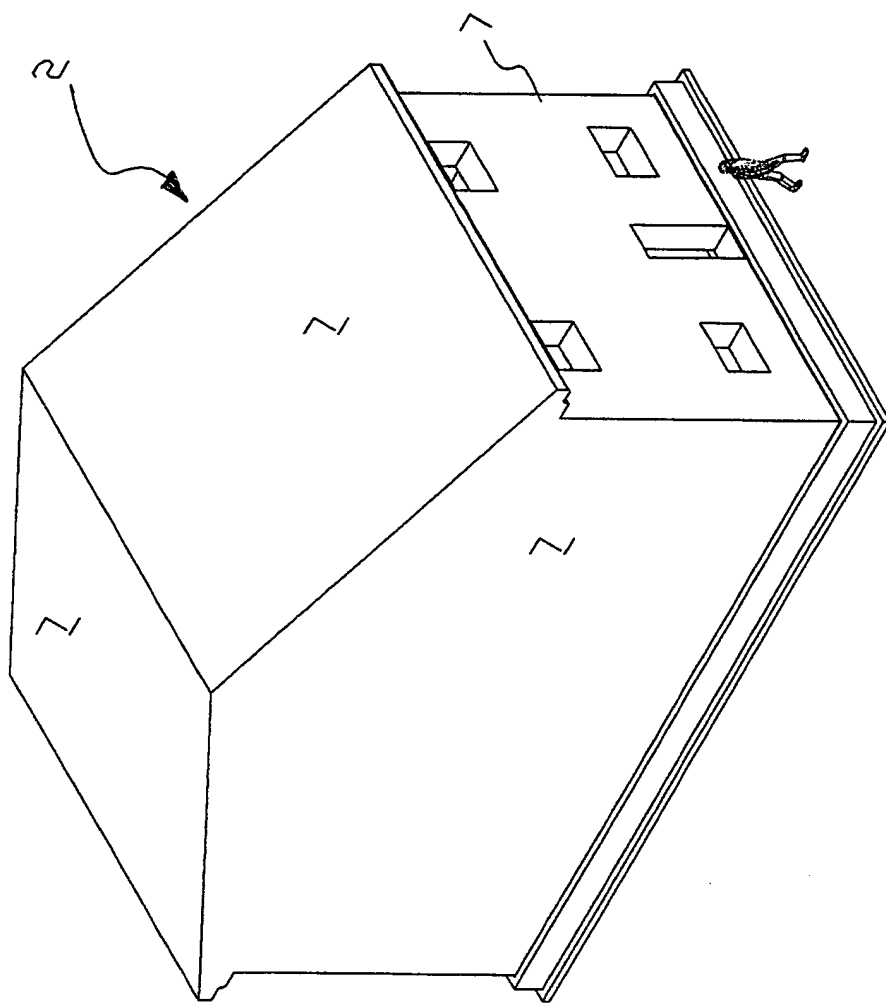


Fig. 41

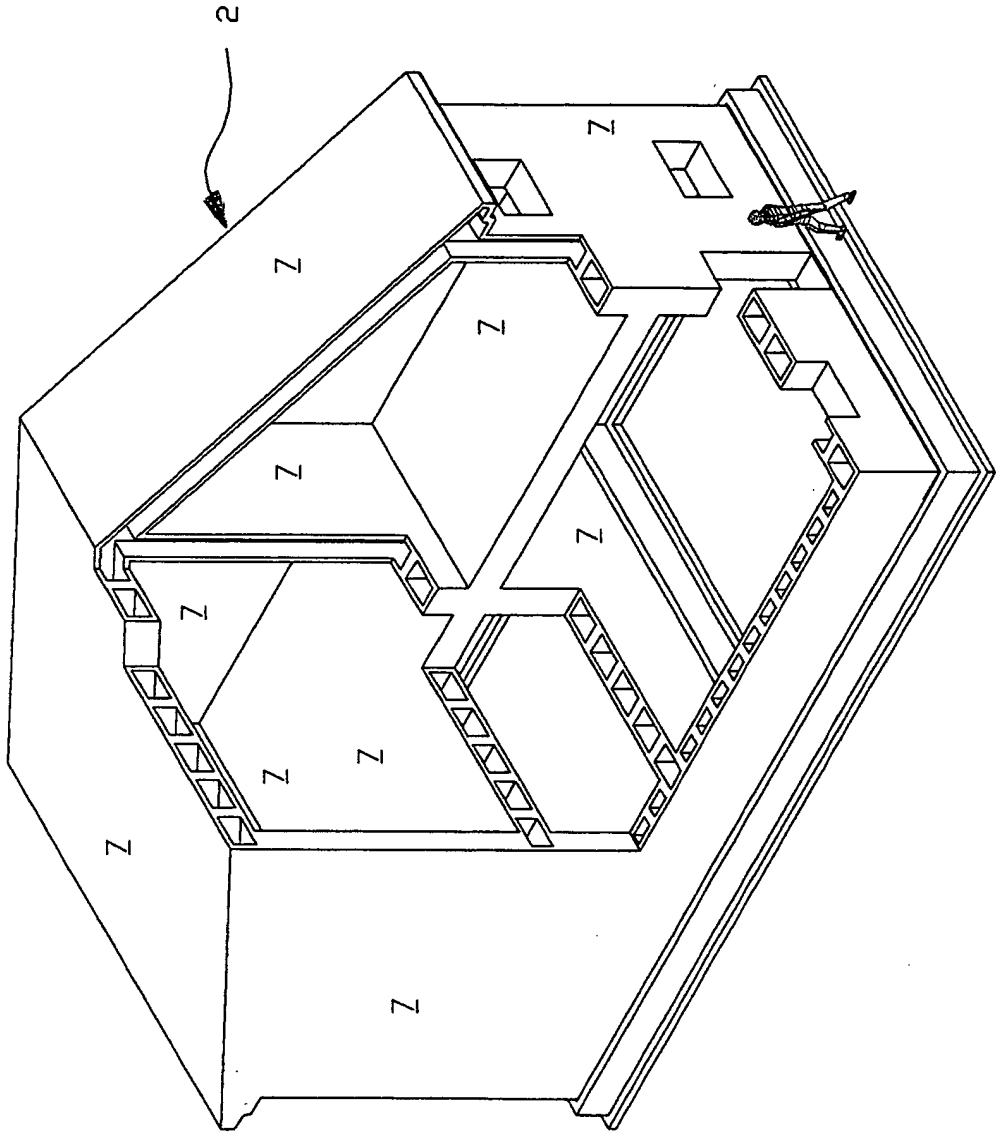


Fig. 42

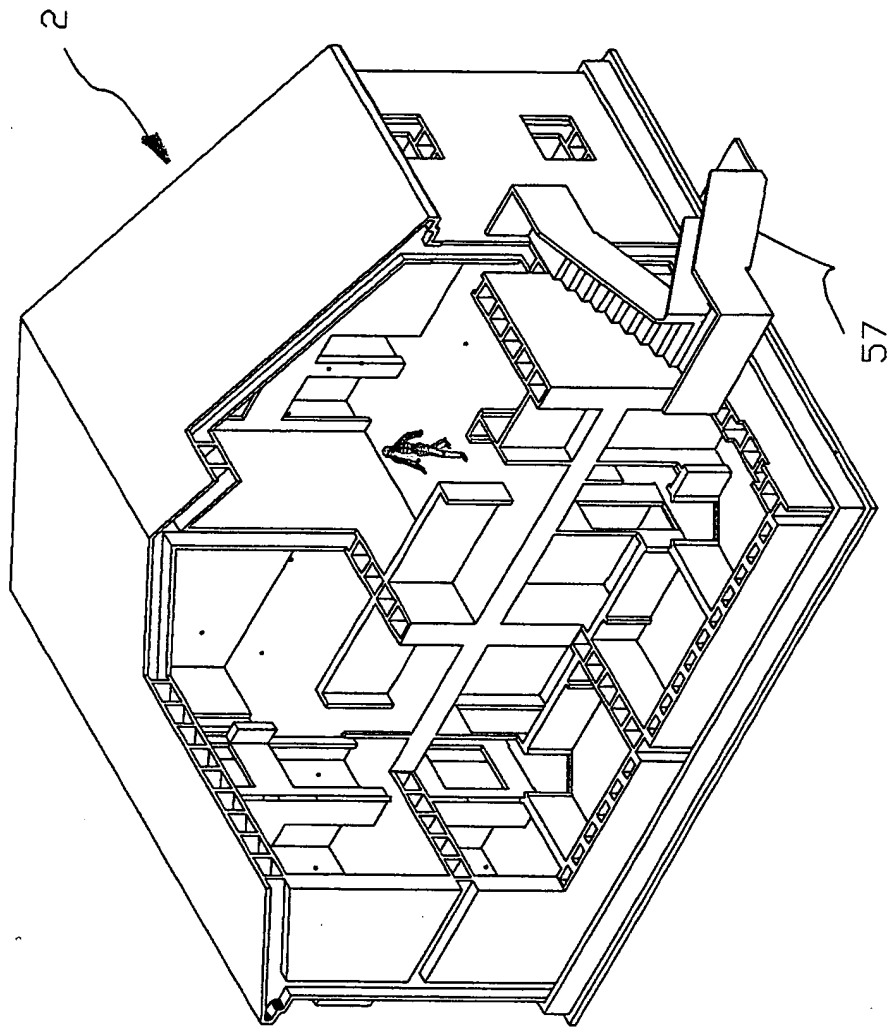


Fig. 43

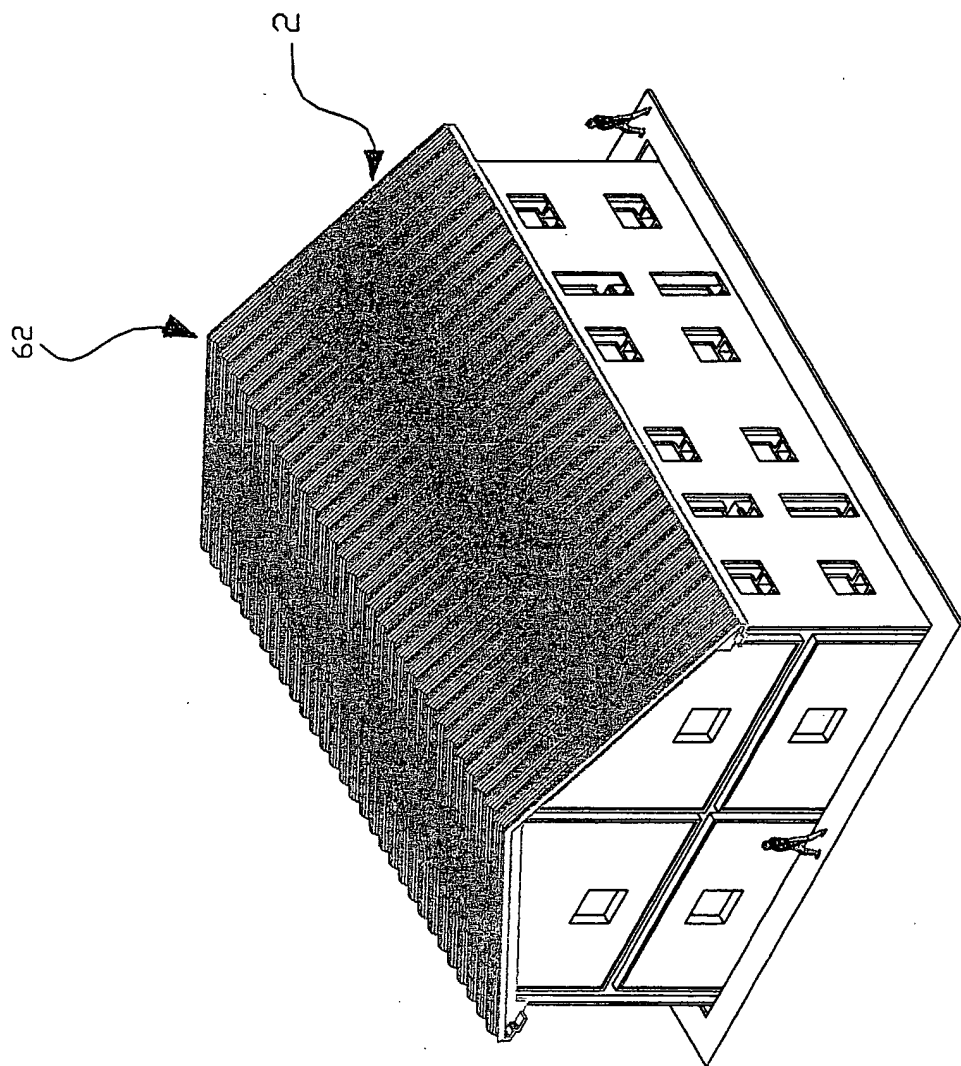


Fig. 44

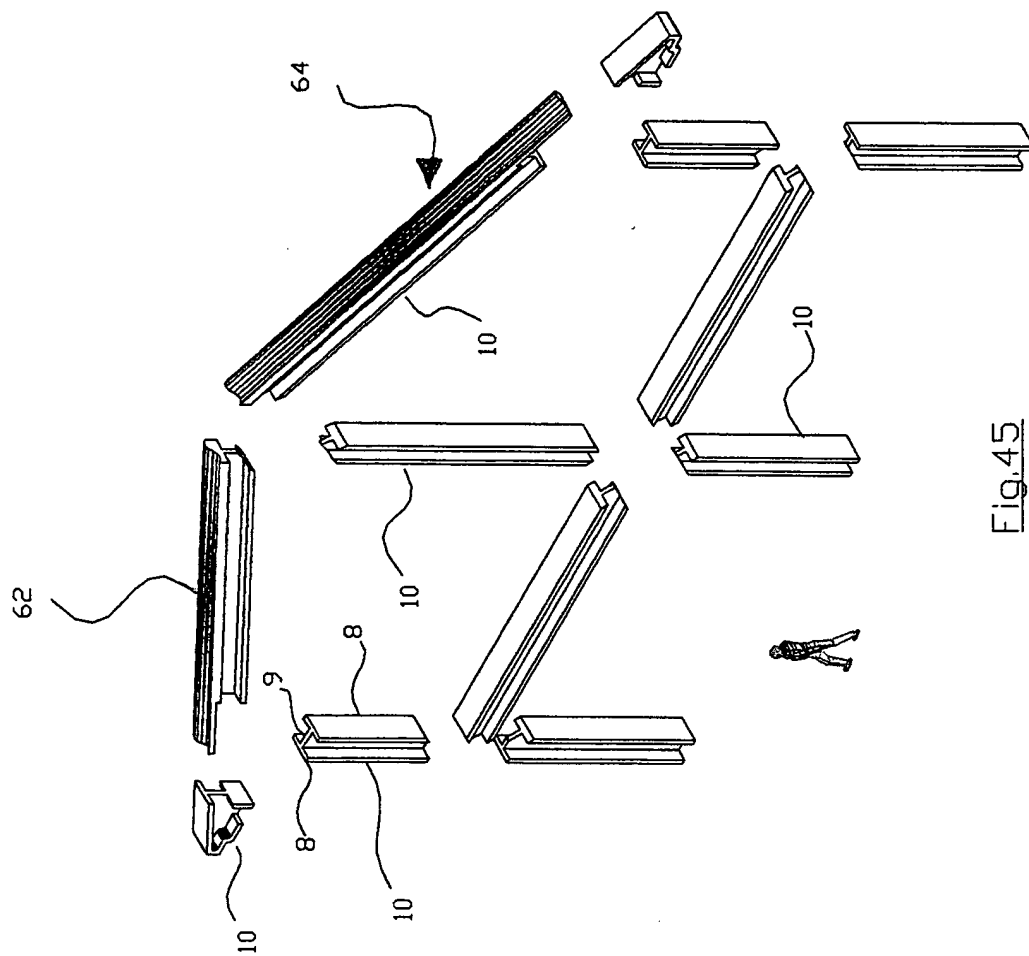


Fig. 45

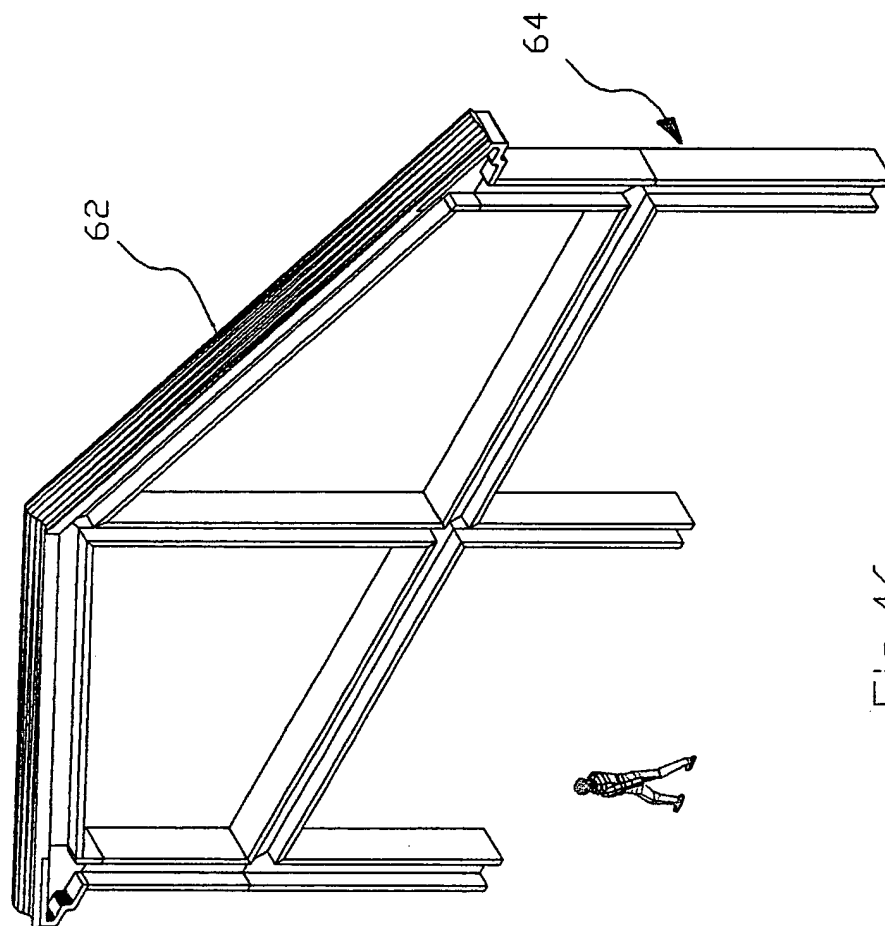


Fig. 46

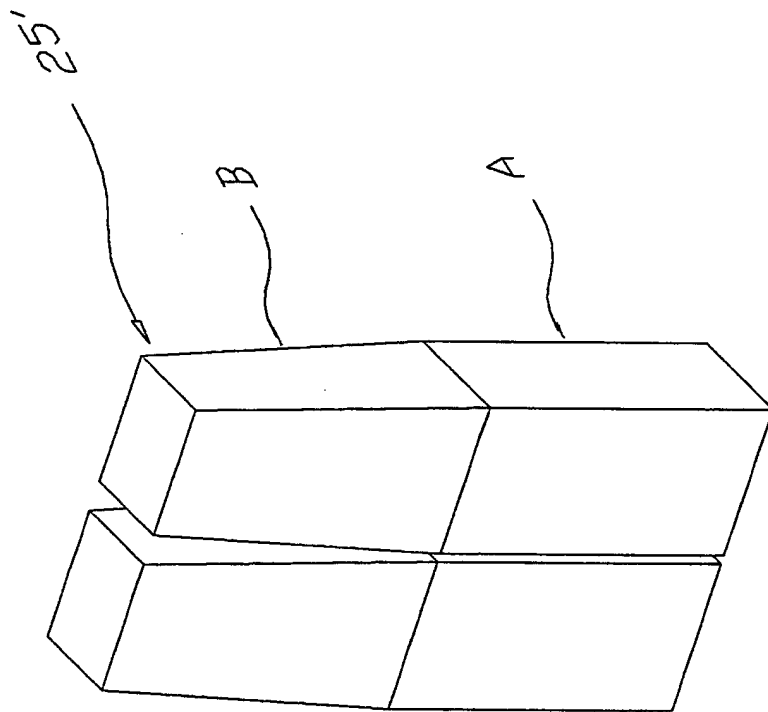


Fig.47

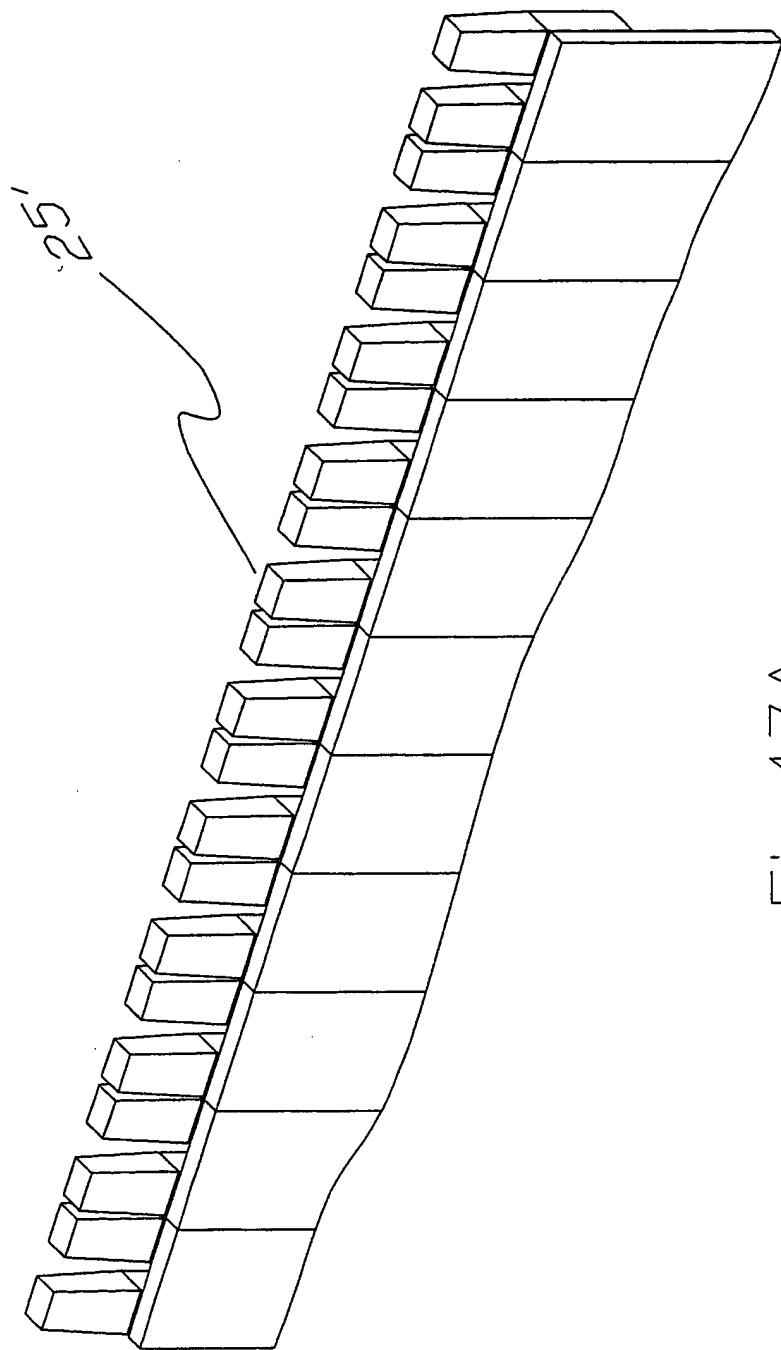
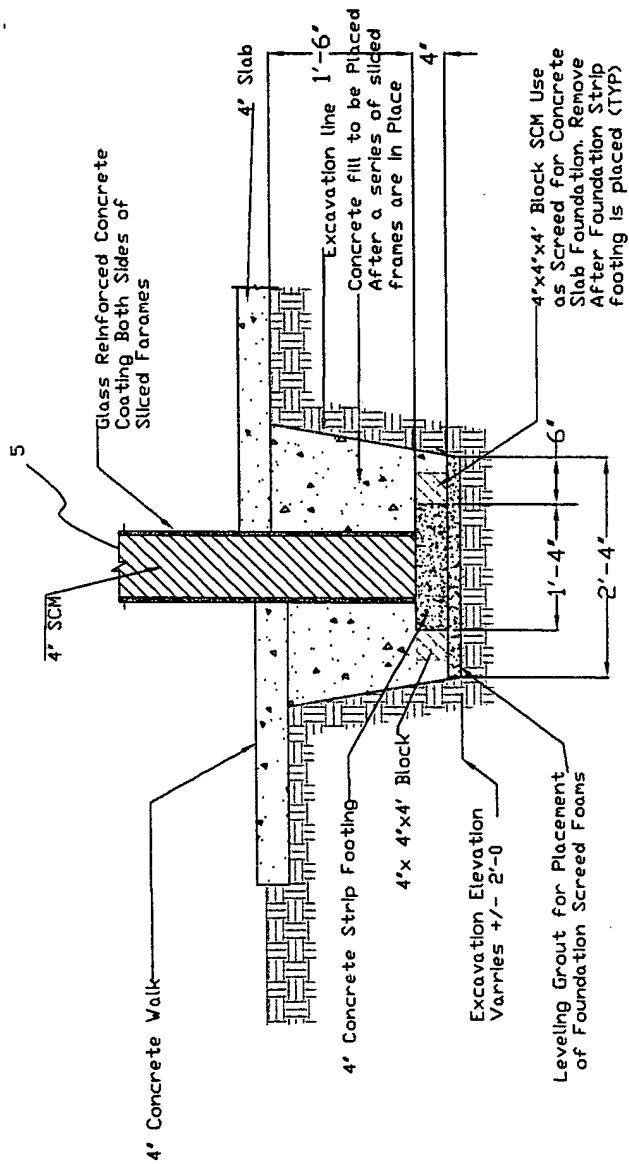


Fig. 47A



SLICED FRAMES GROUND
CONNECTION DETAIL

SCALE: NONE

Fig. 48

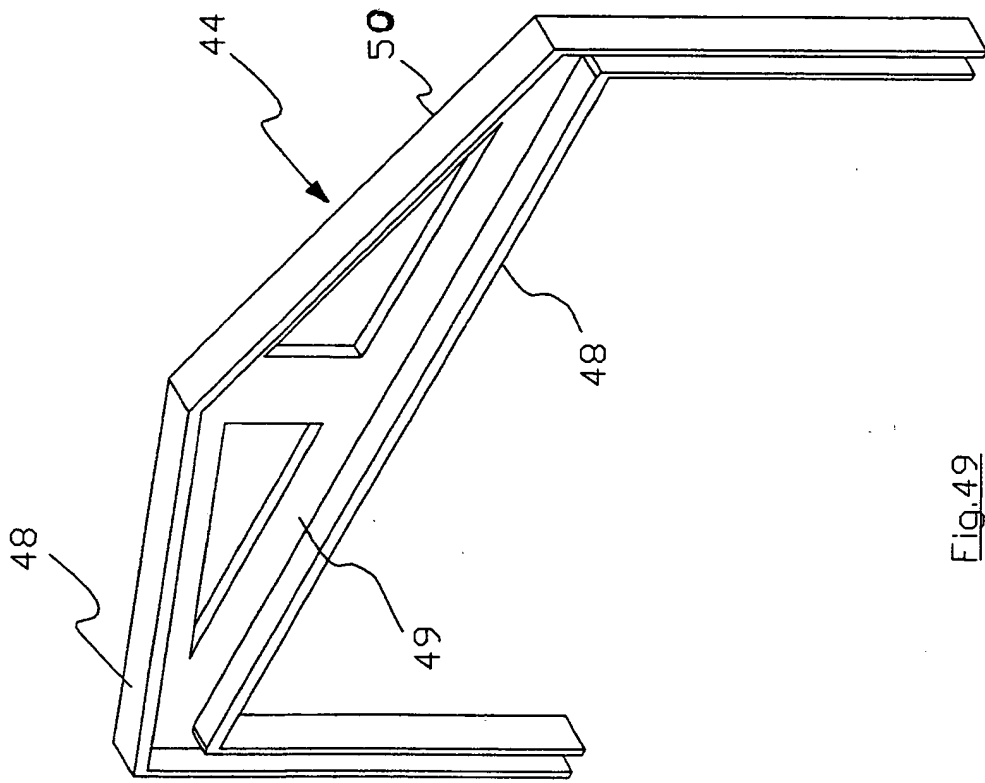


Fig. 49

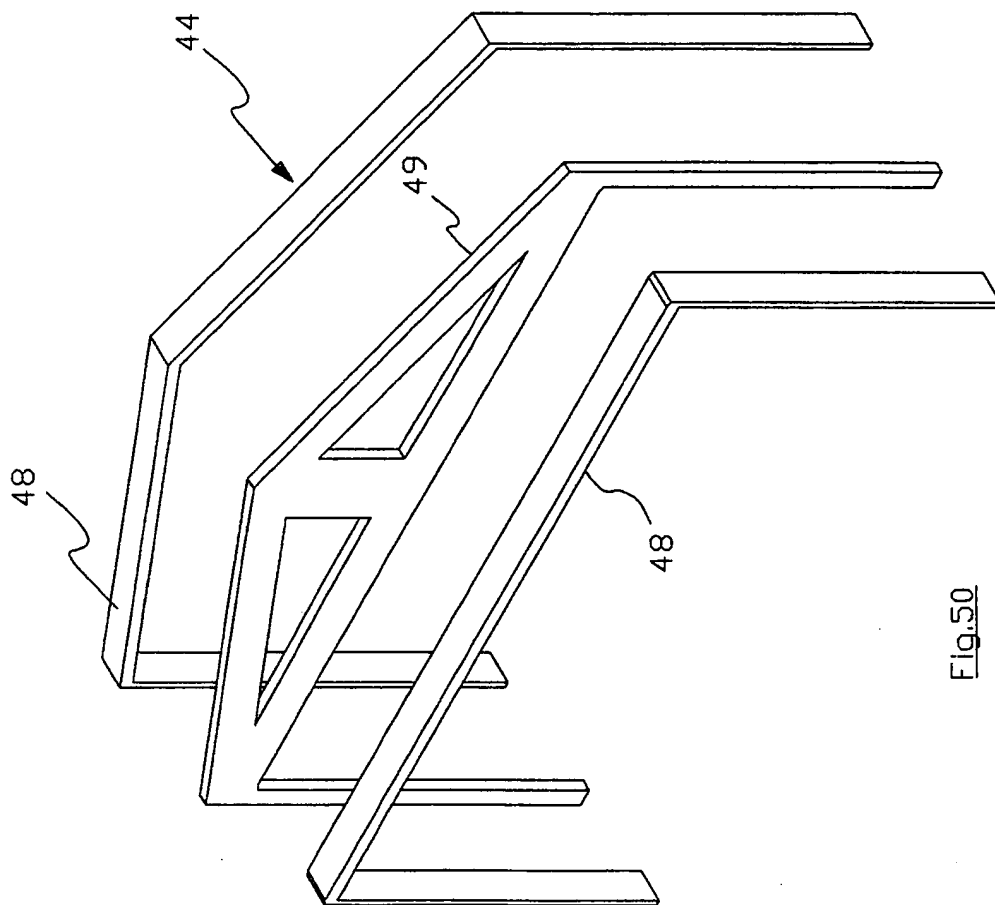


Fig. 50

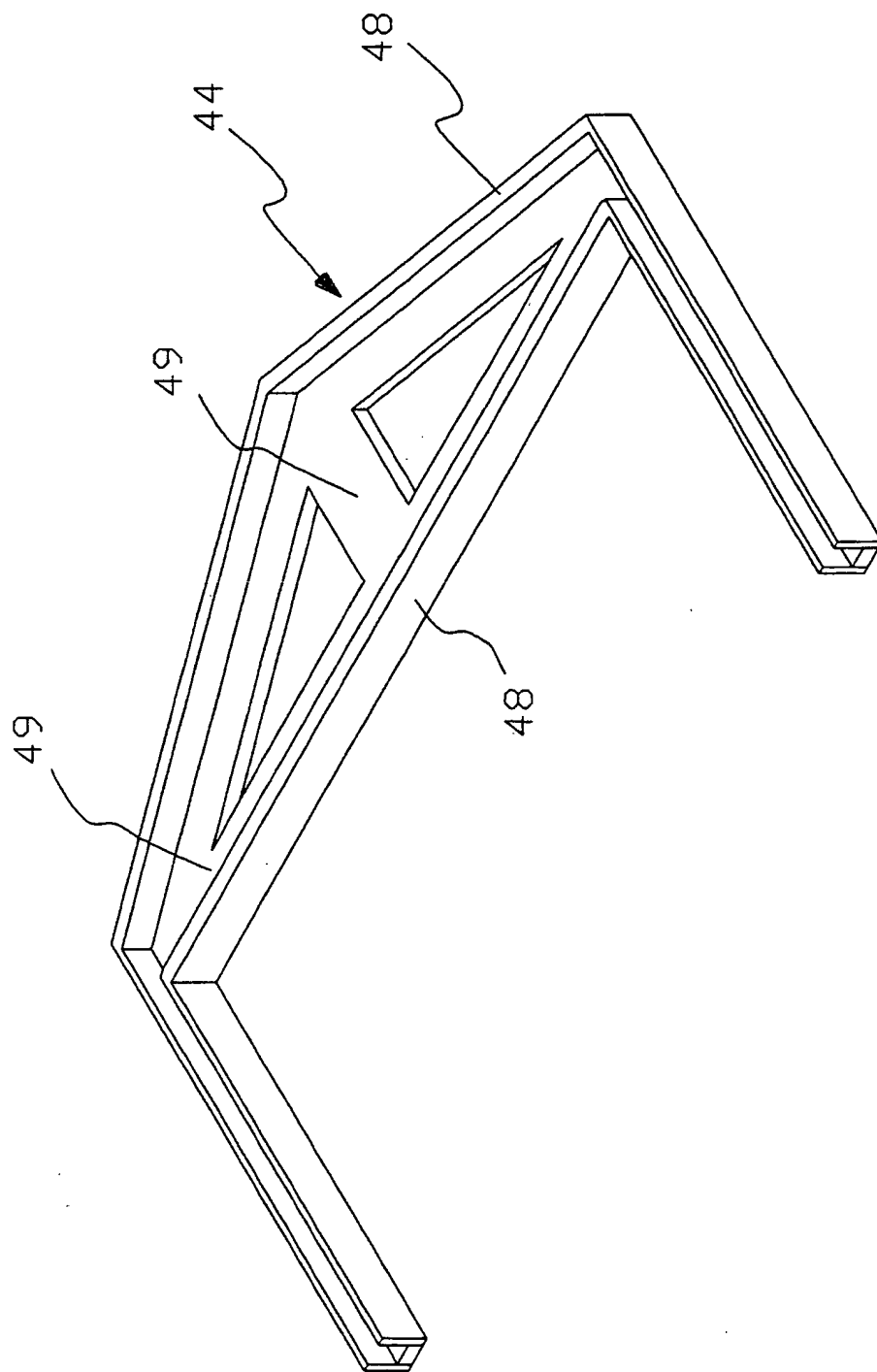


Fig. 51

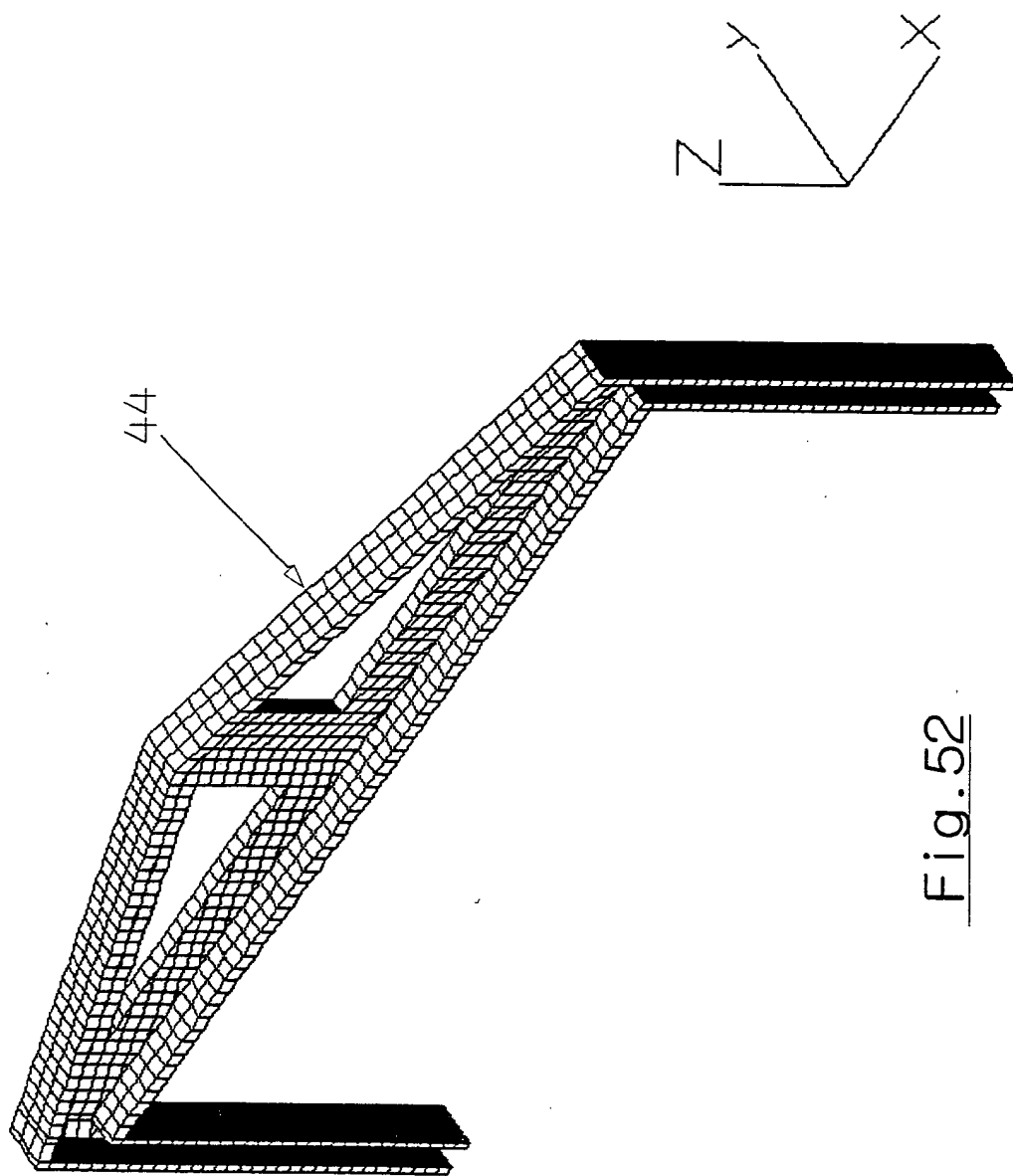


Fig. 52

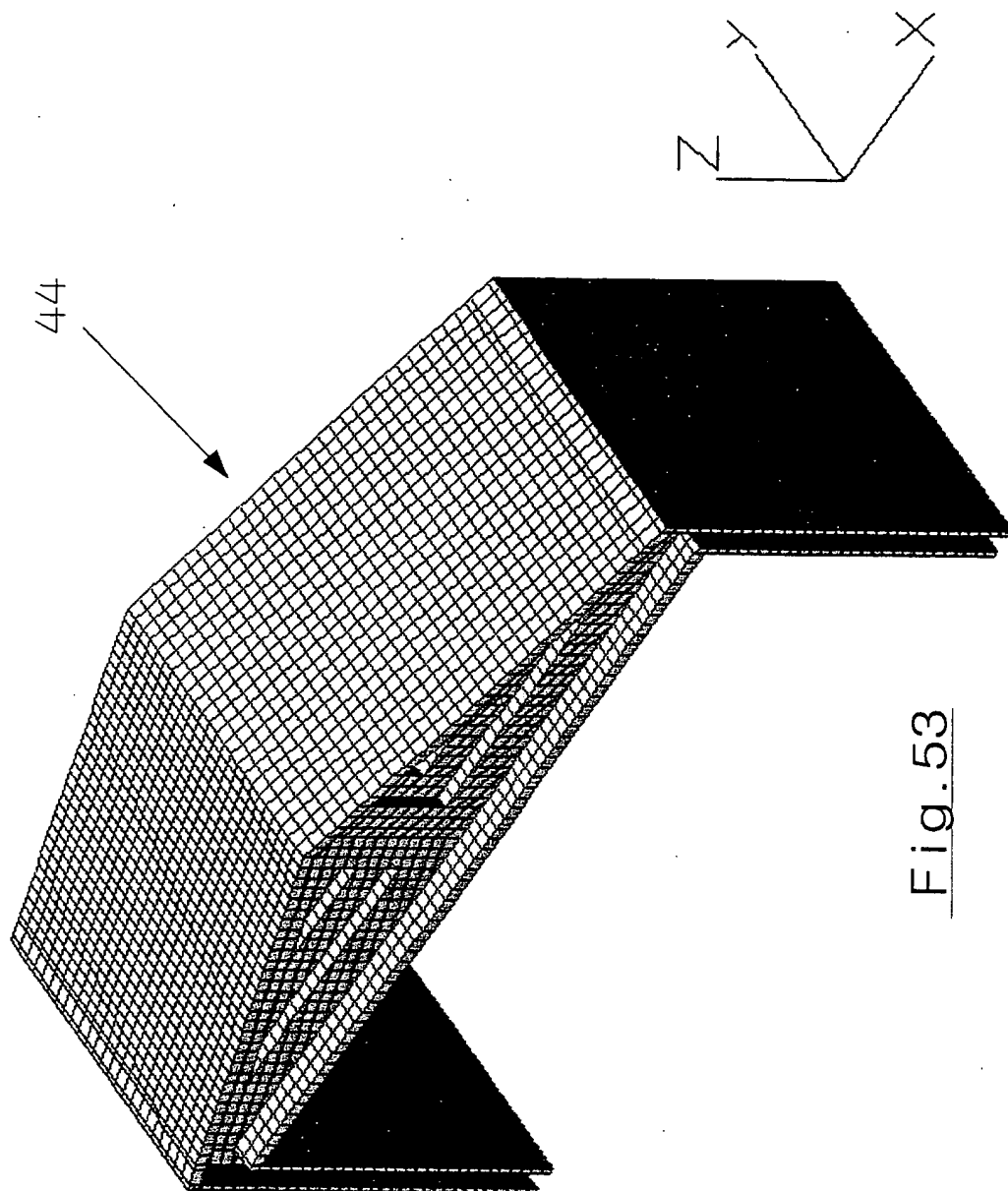


Fig. 53

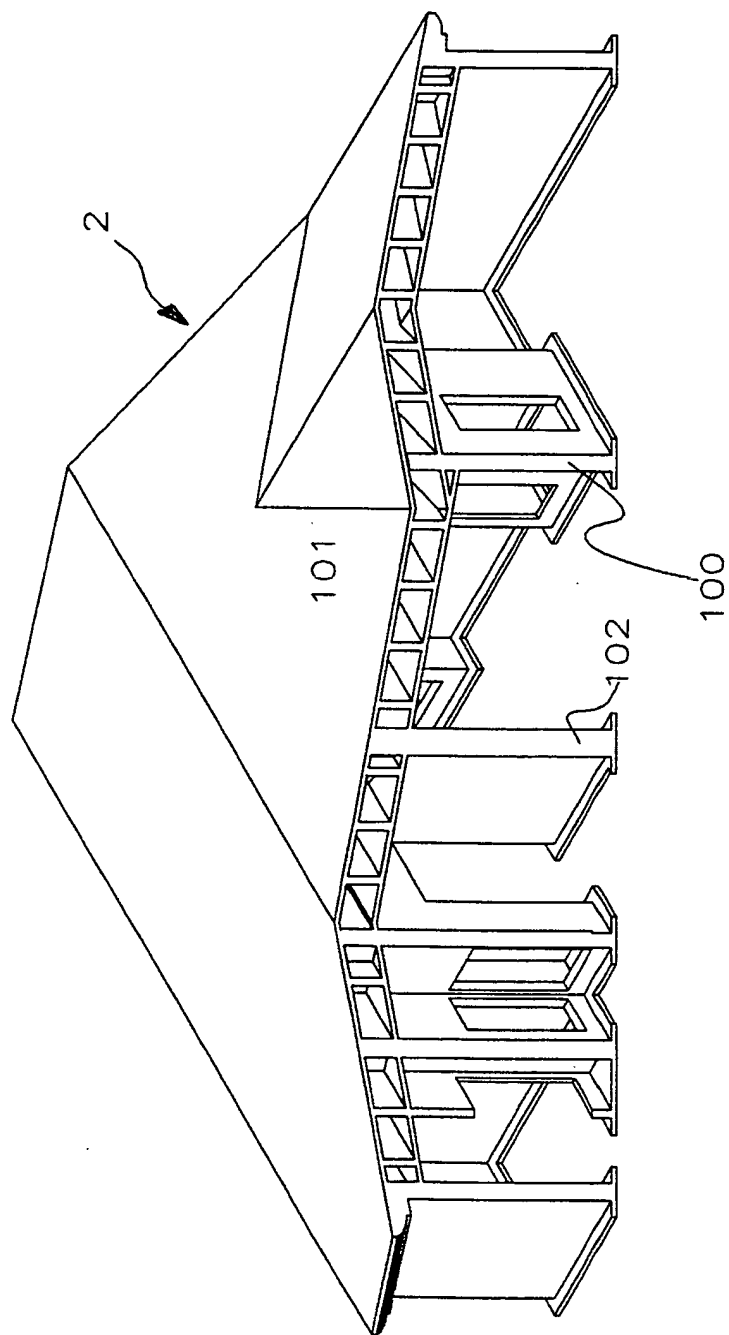


Fig. 54

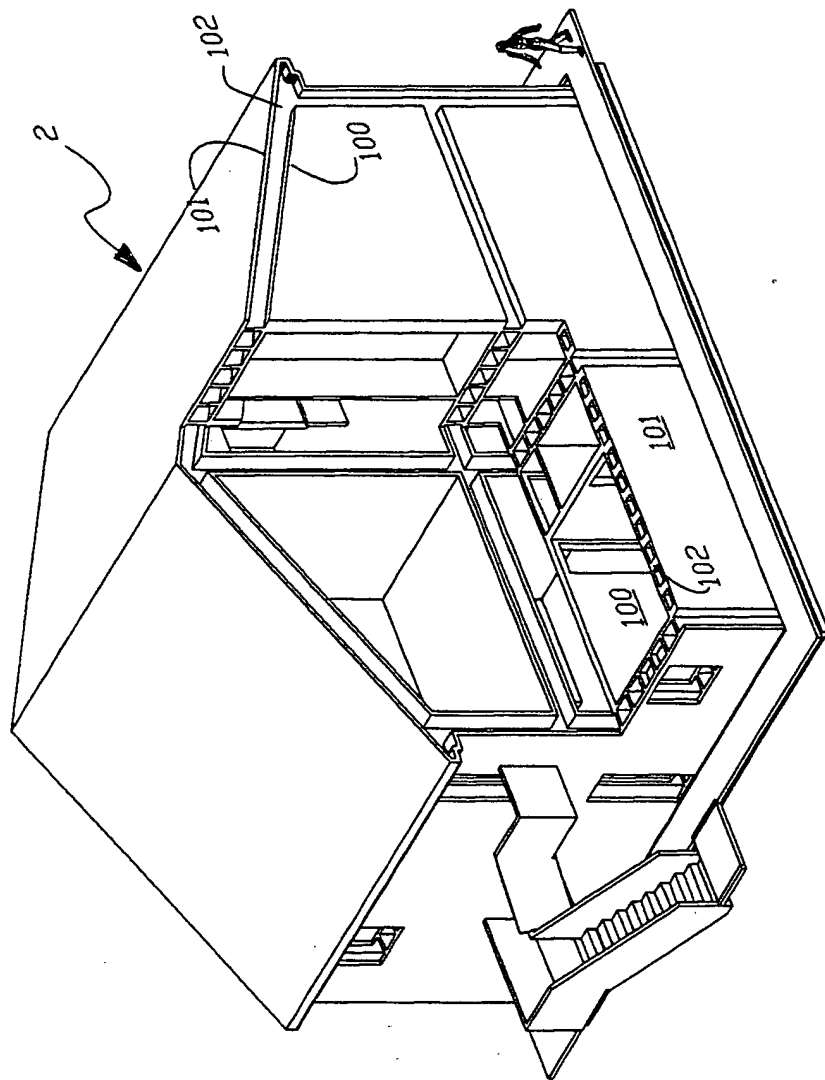


Fig. 55

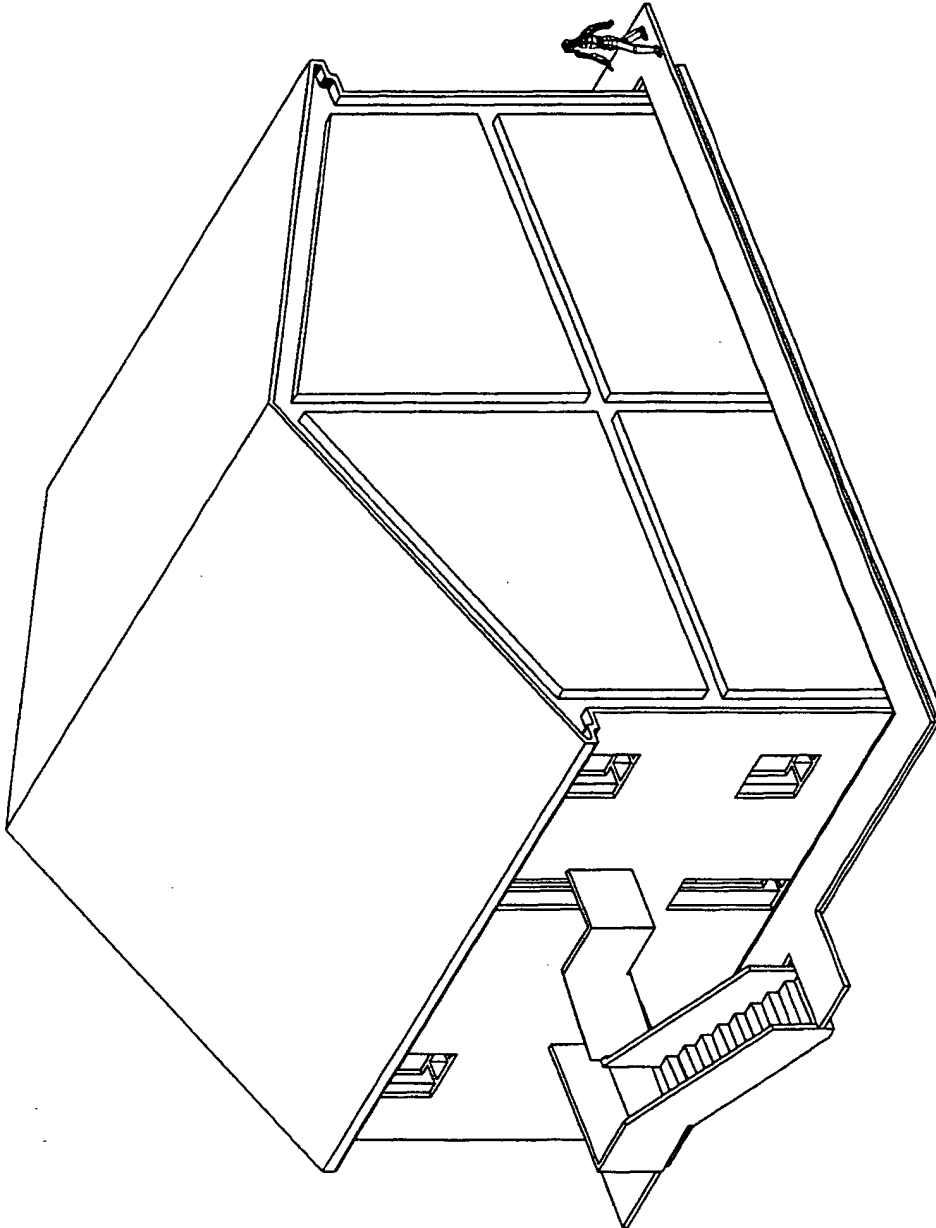


Fig. 56

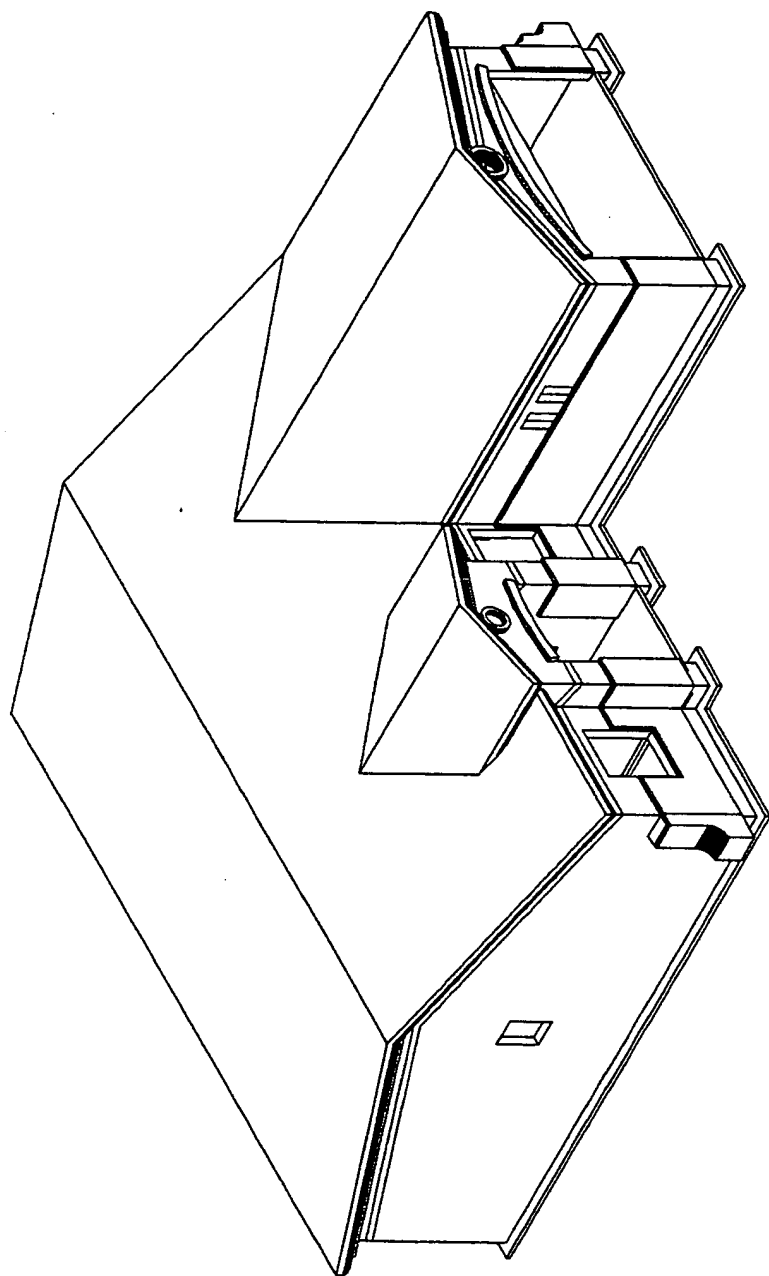


Fig. 57

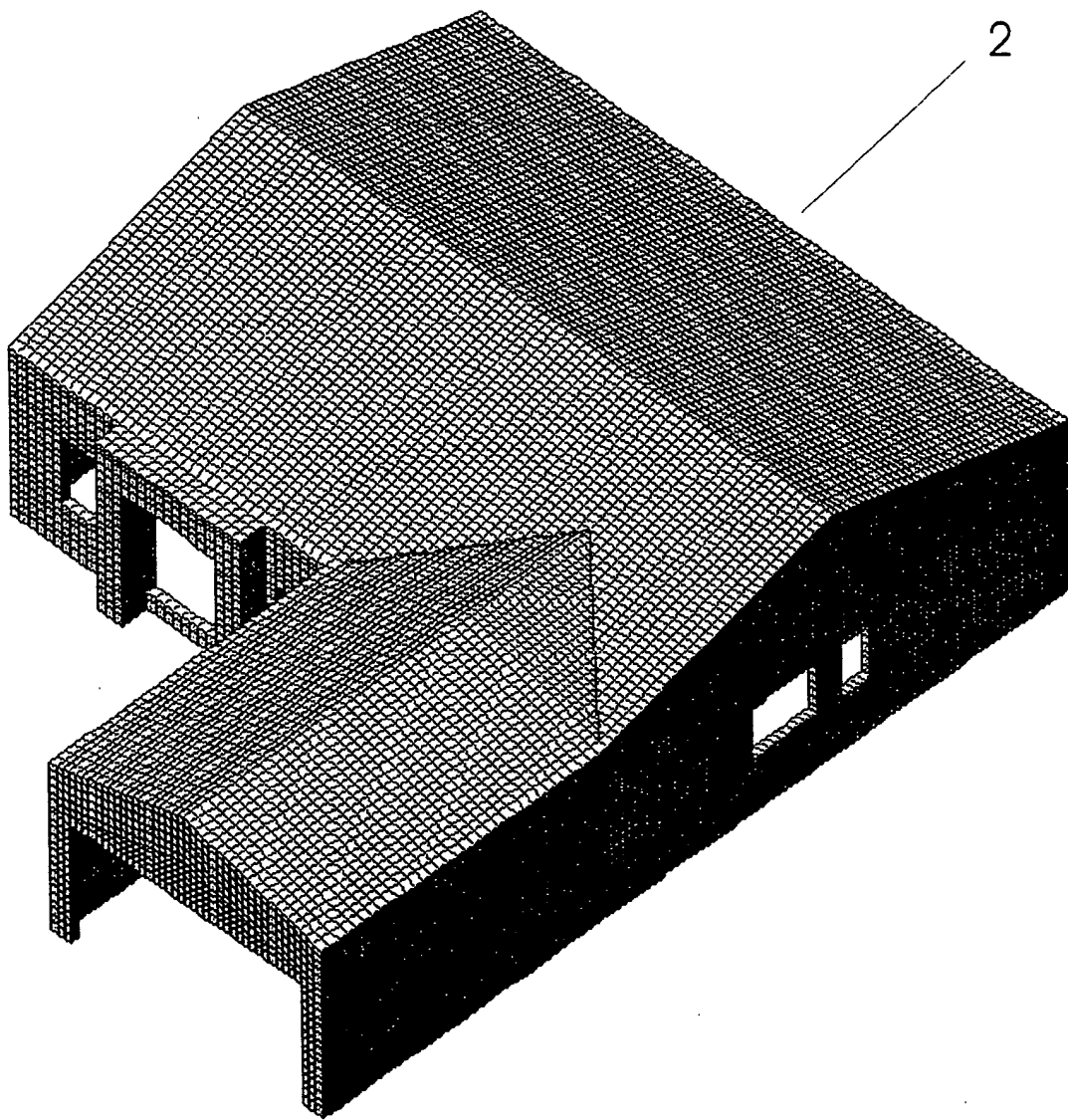


Fig. 58

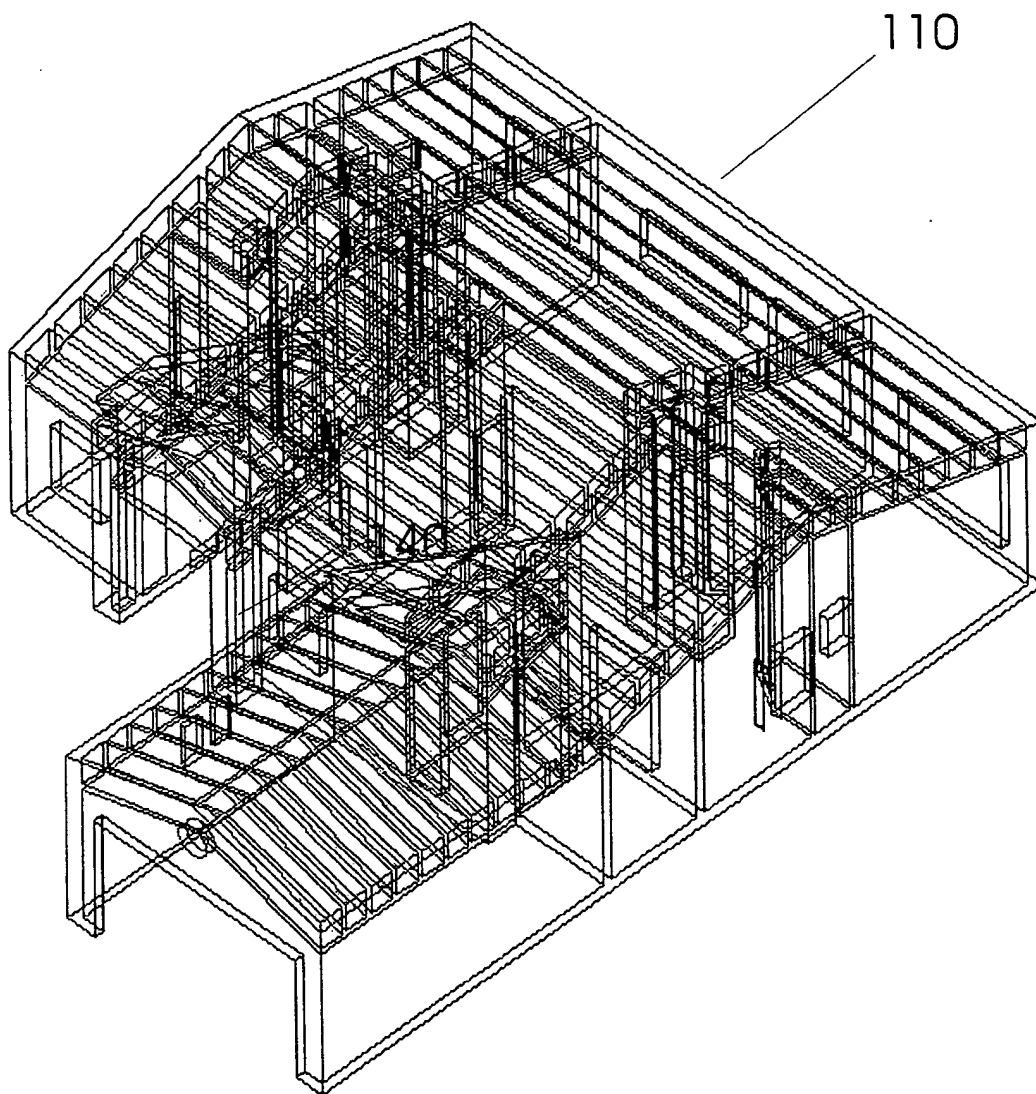


Fig.59

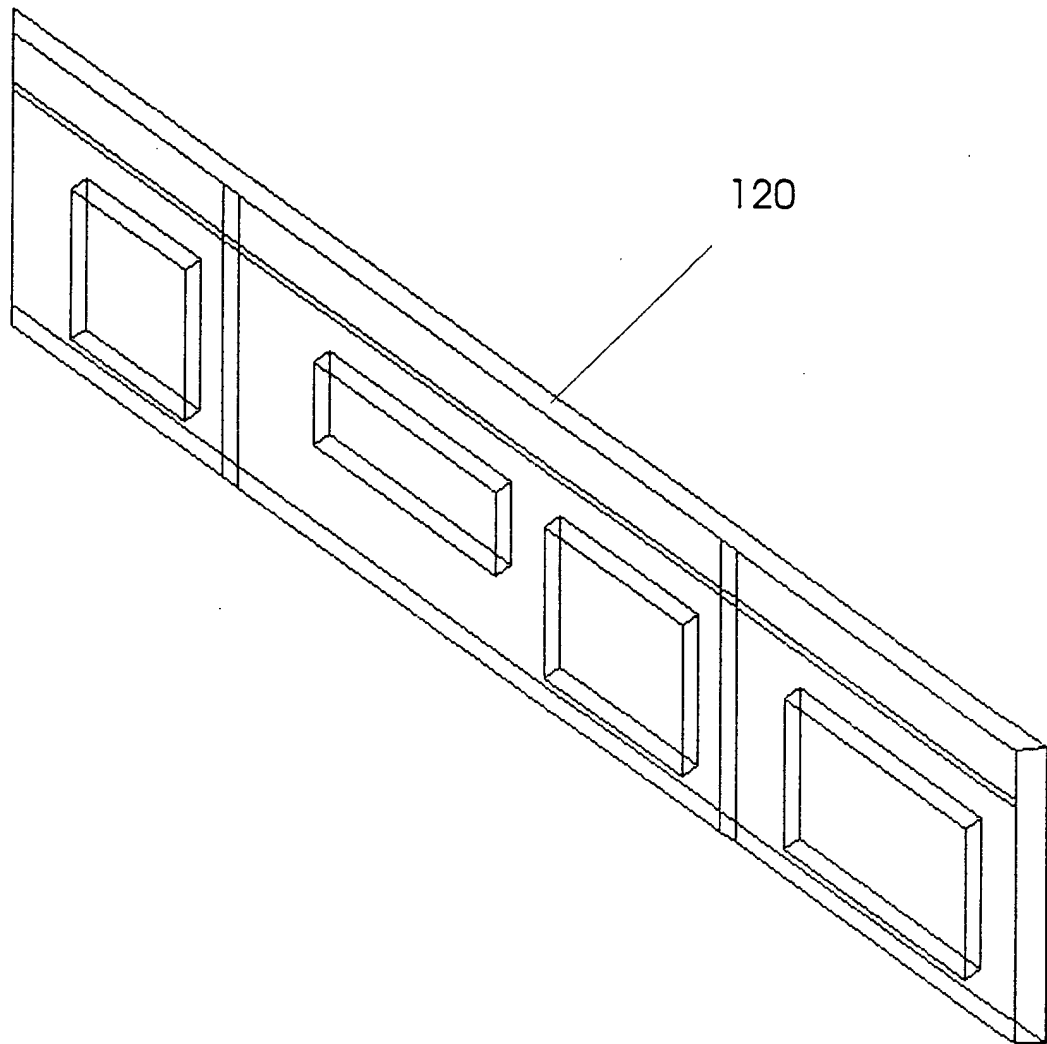


Fig.60

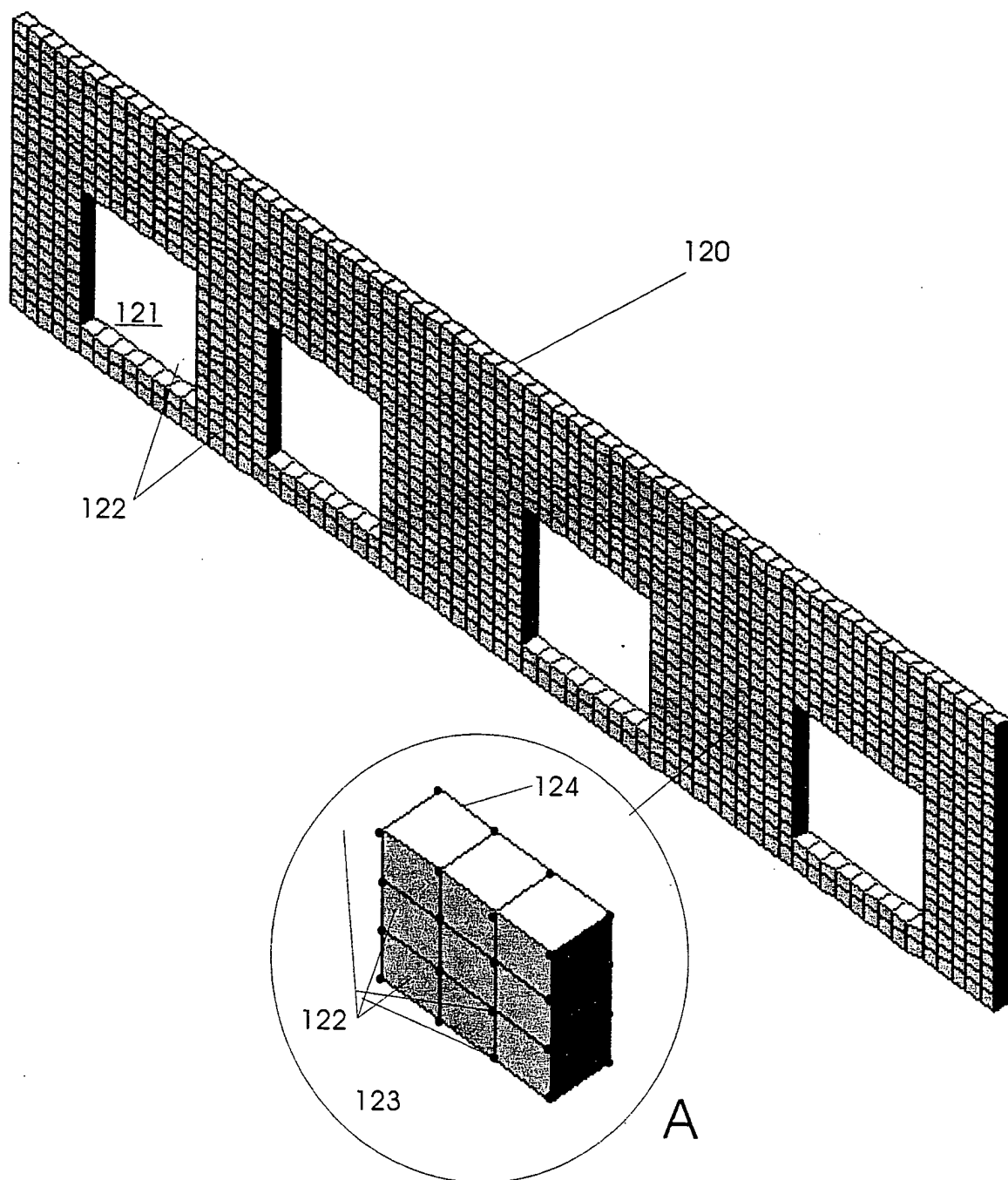


Fig.61

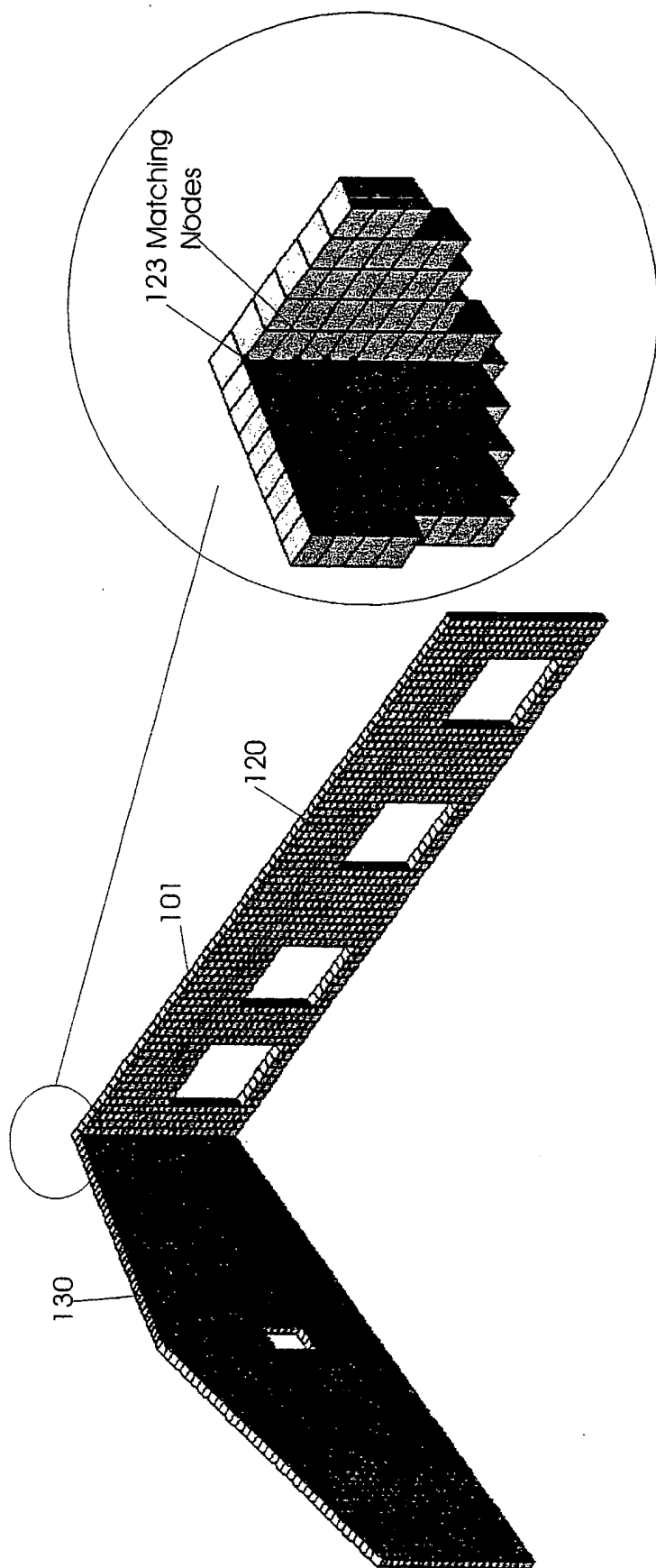


Fig. 62

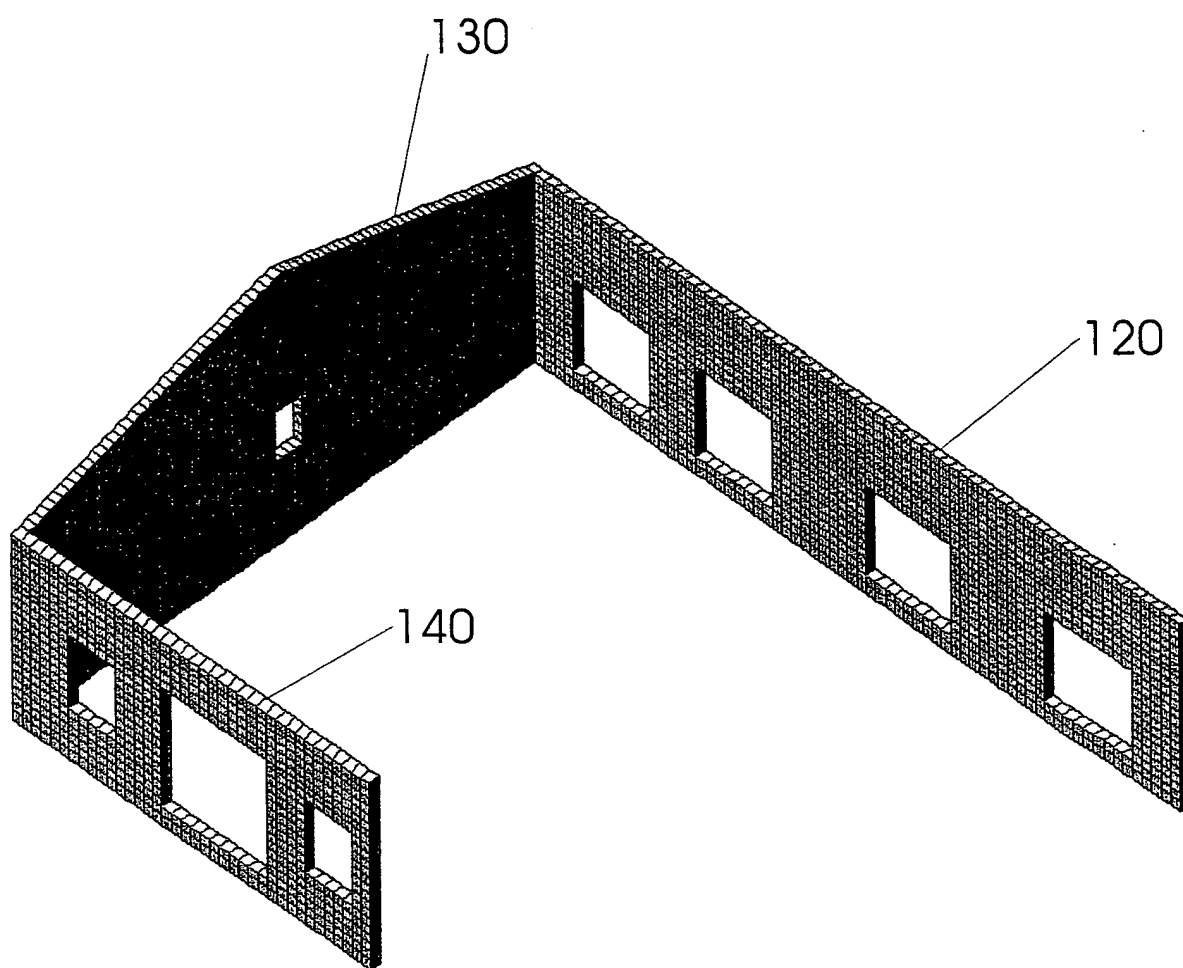


Fig.63

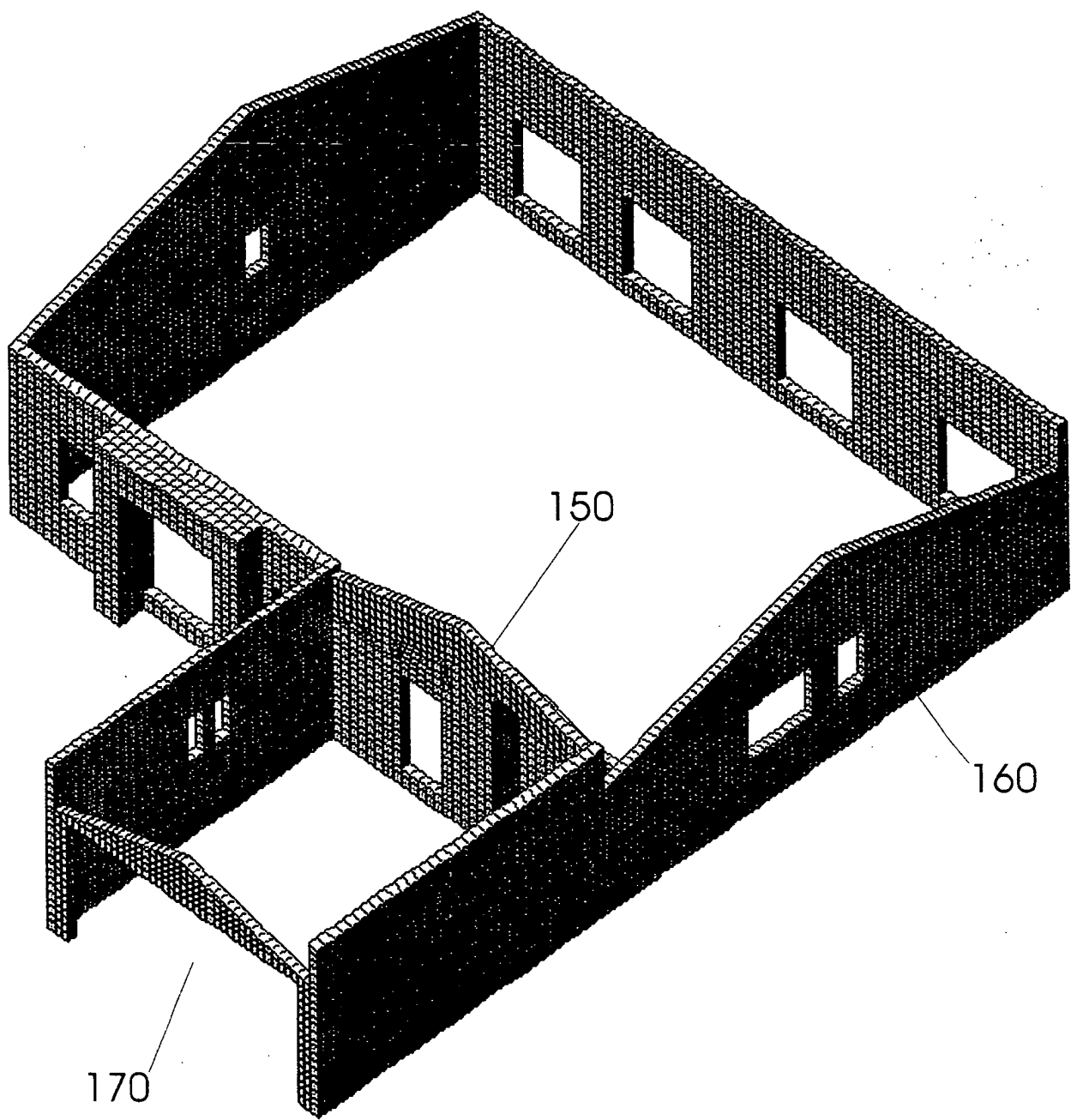


Fig.64

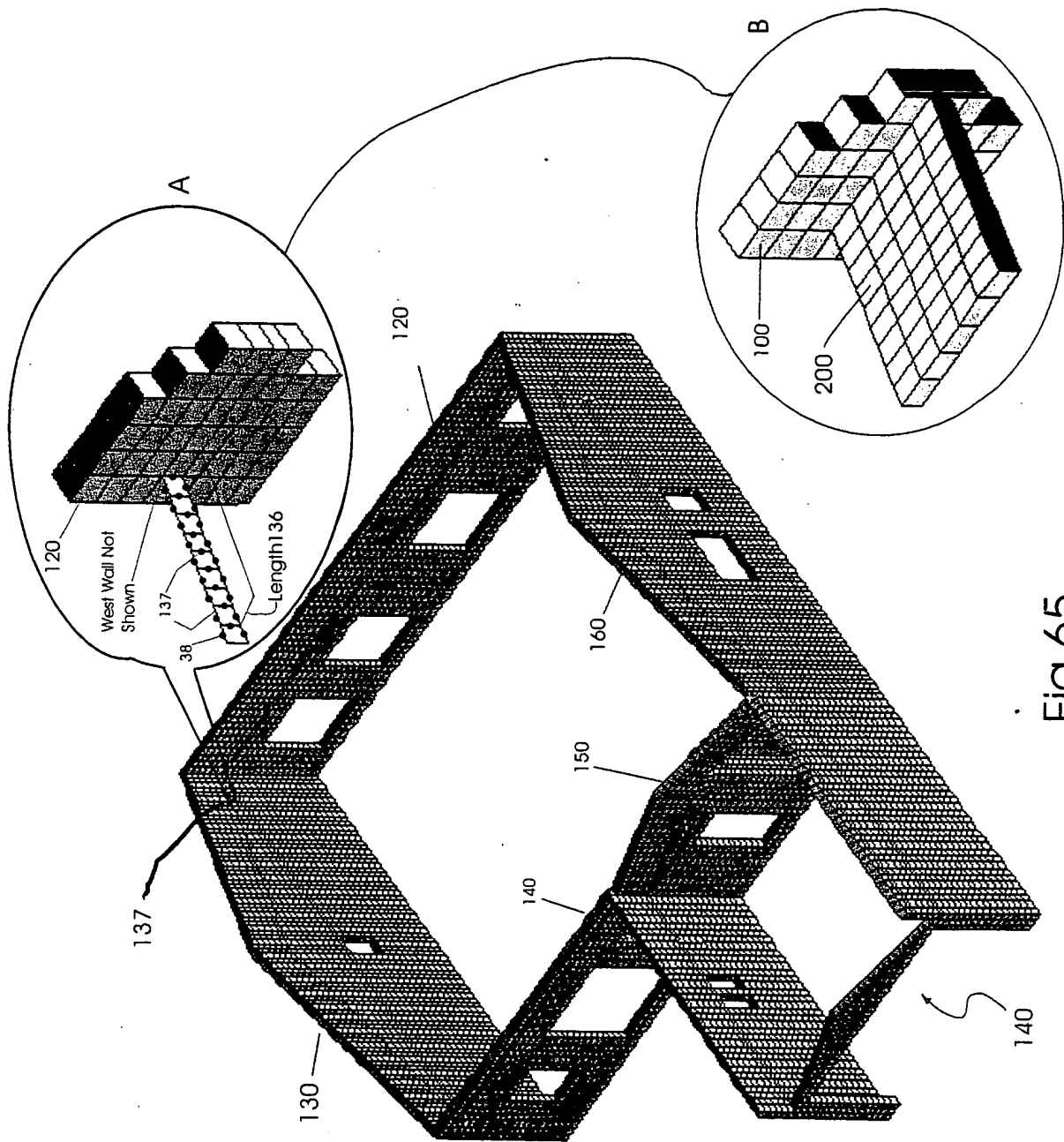


Fig.65

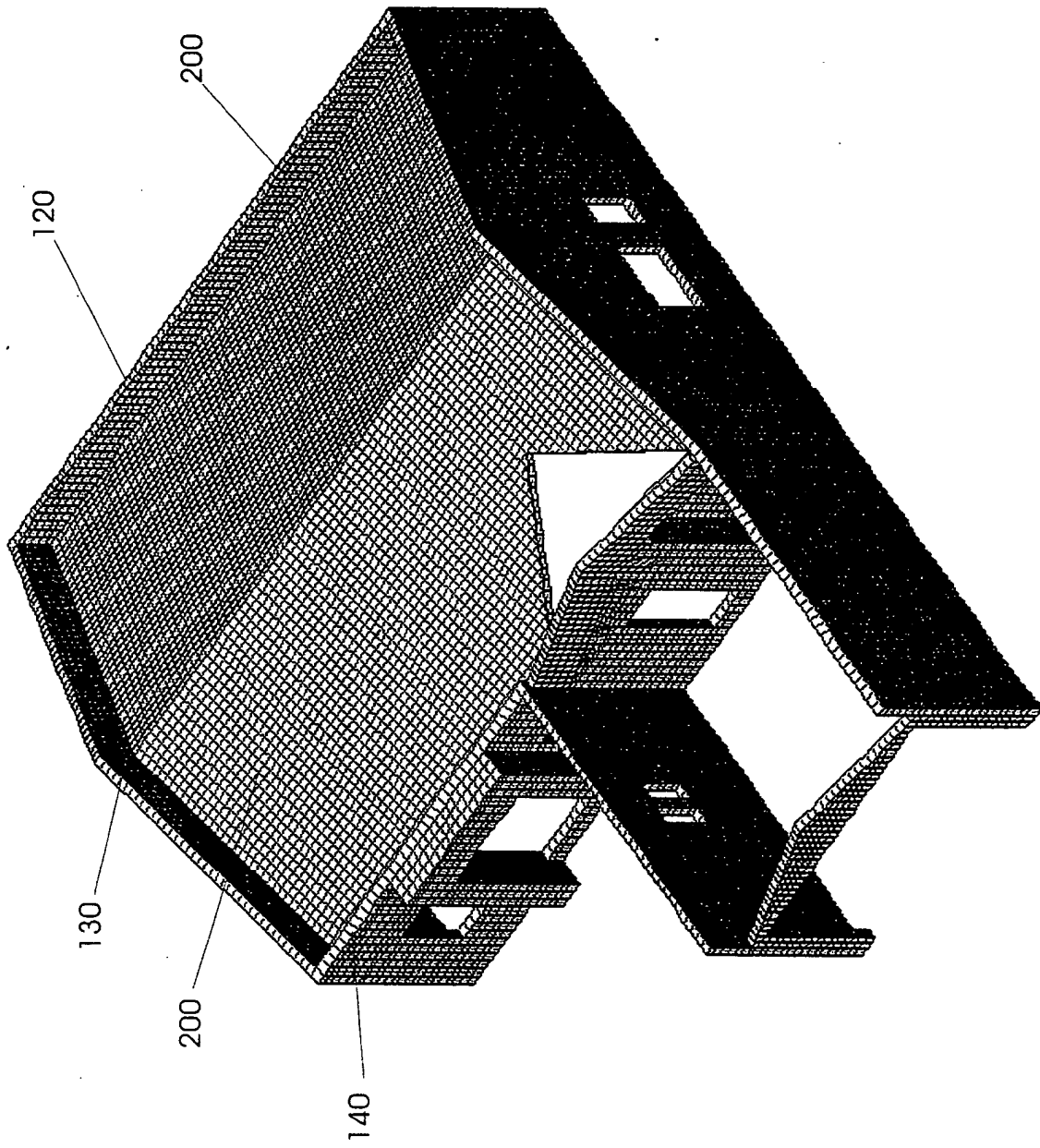


Fig. 66

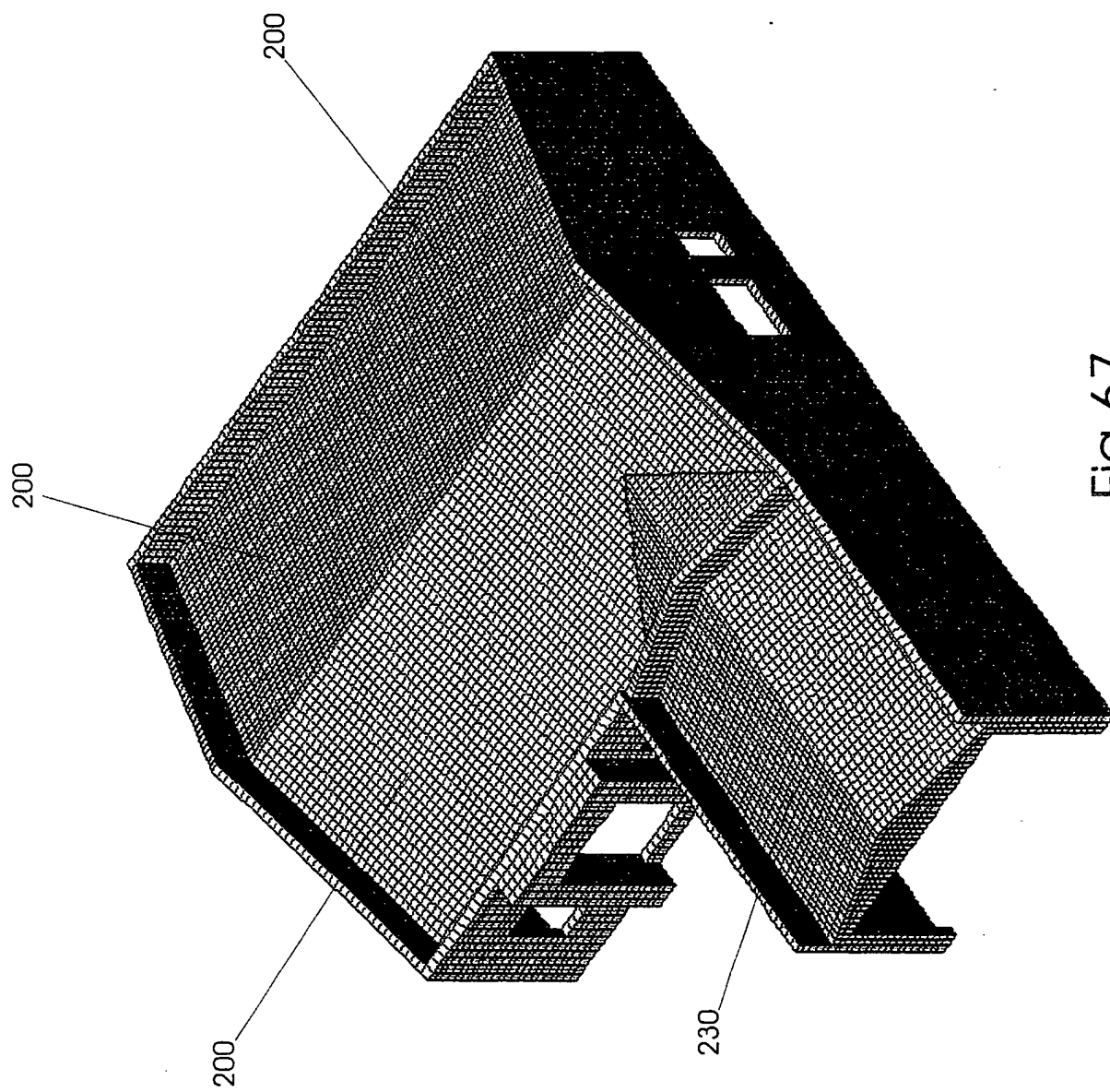


Fig. 67

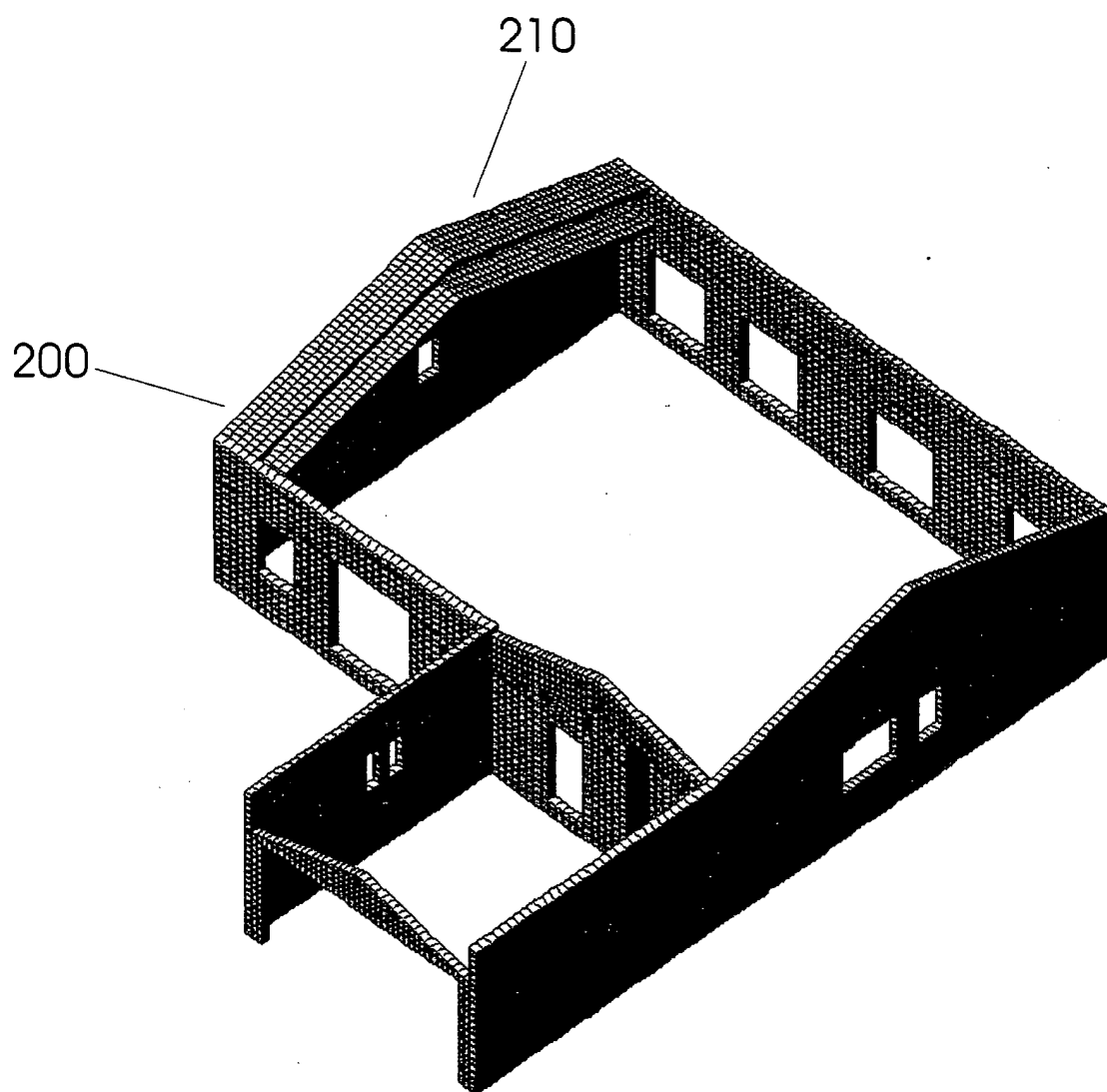


Fig.68

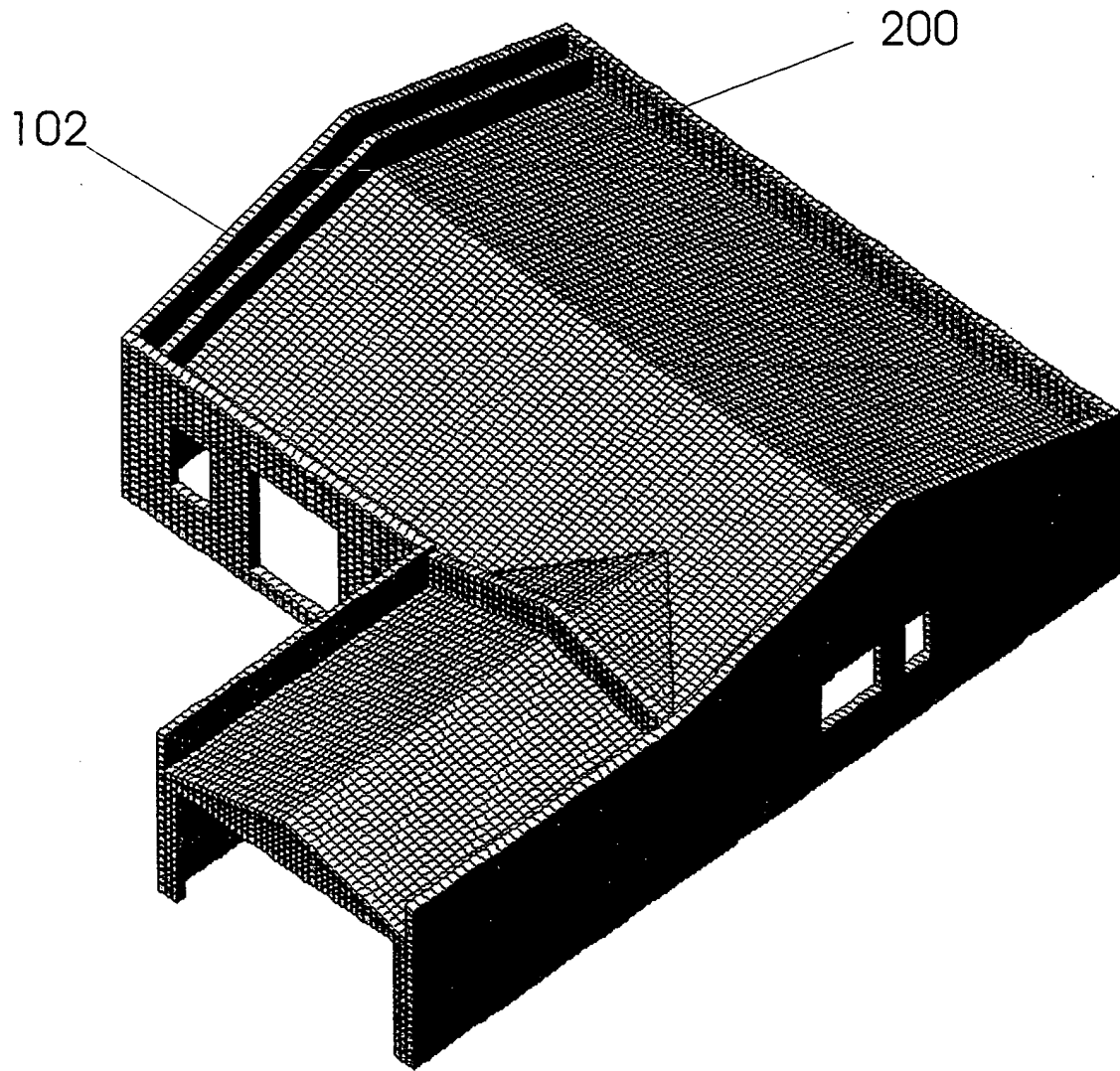


Fig.69

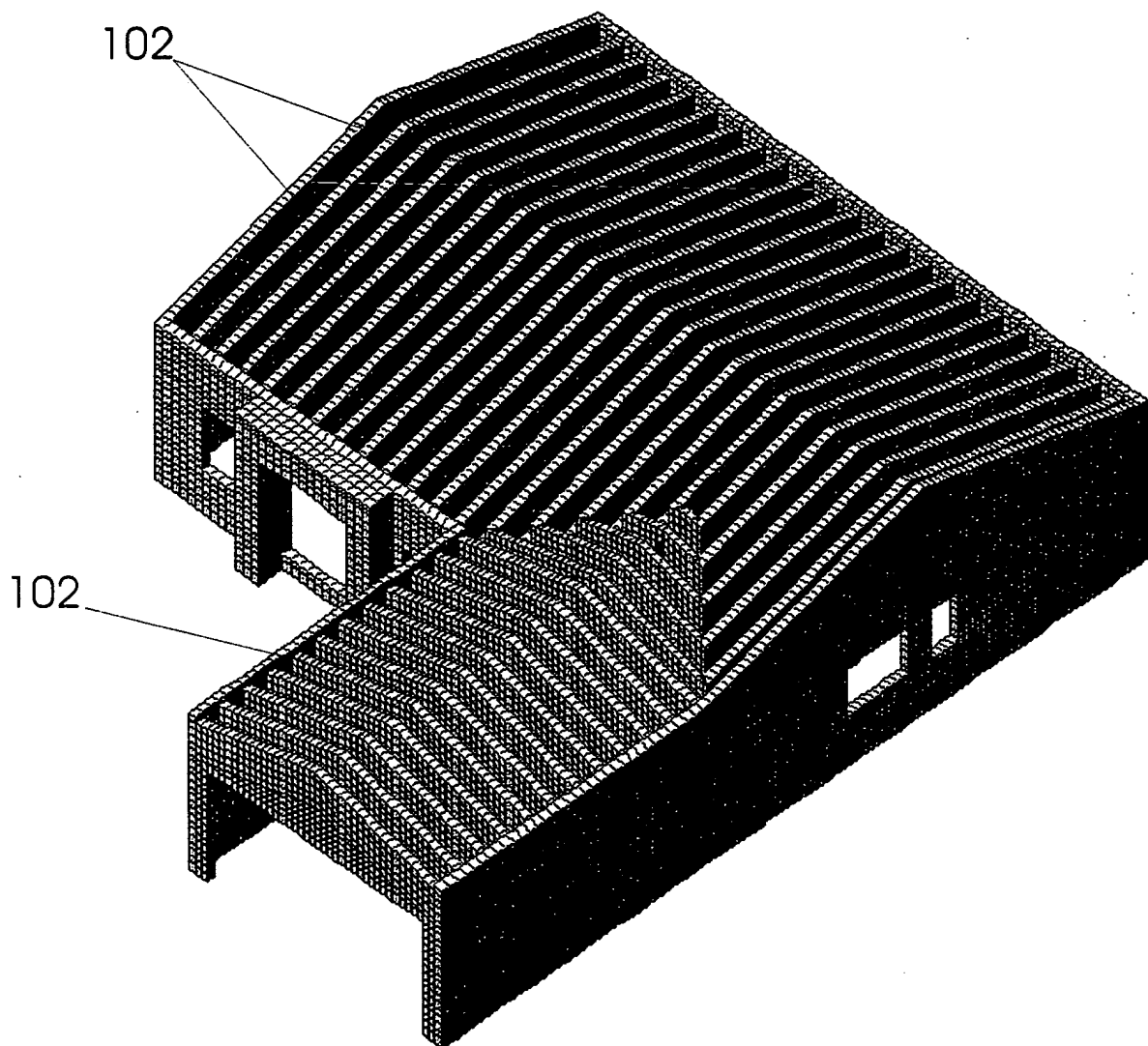


Fig.70

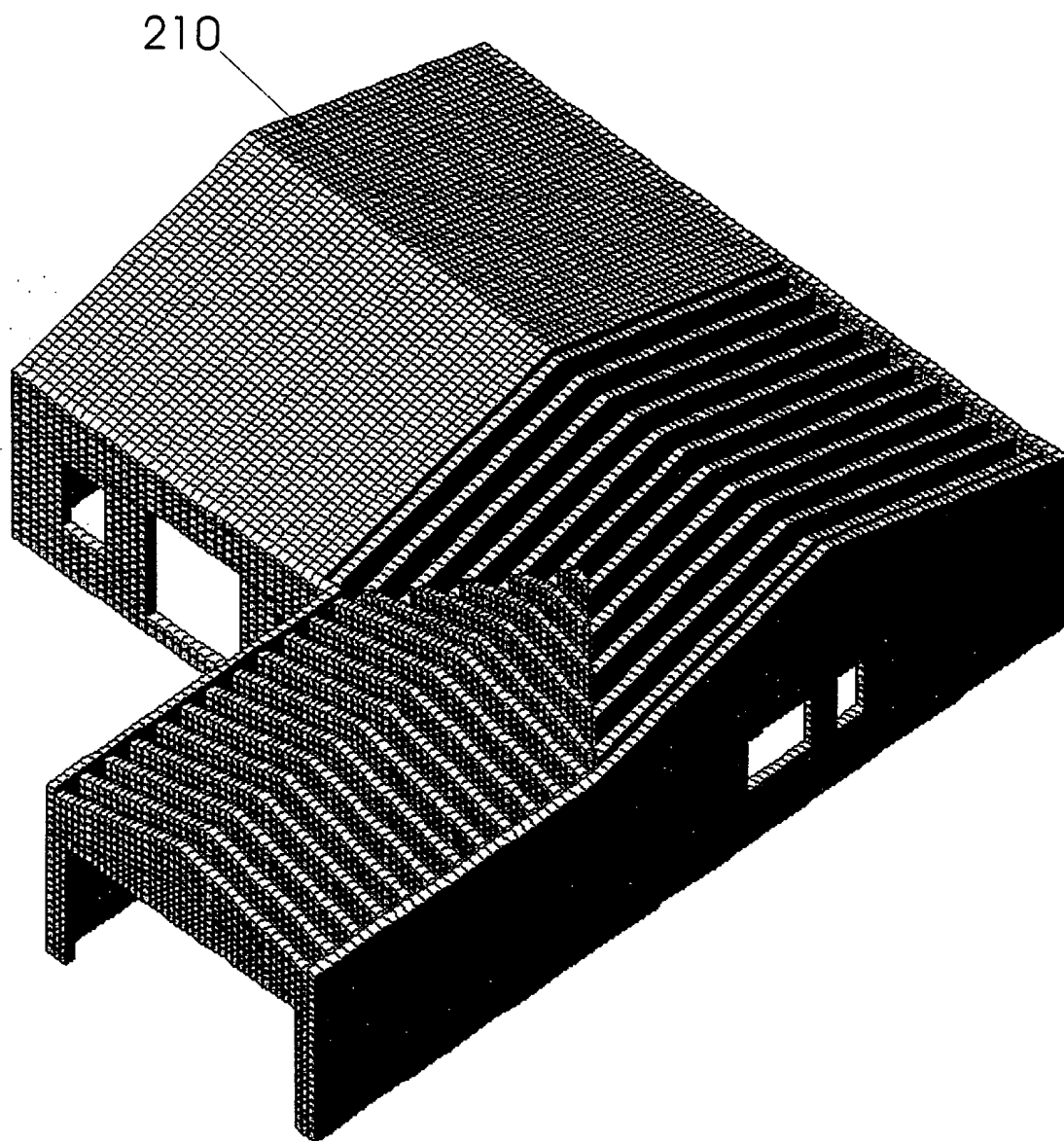


Fig.71

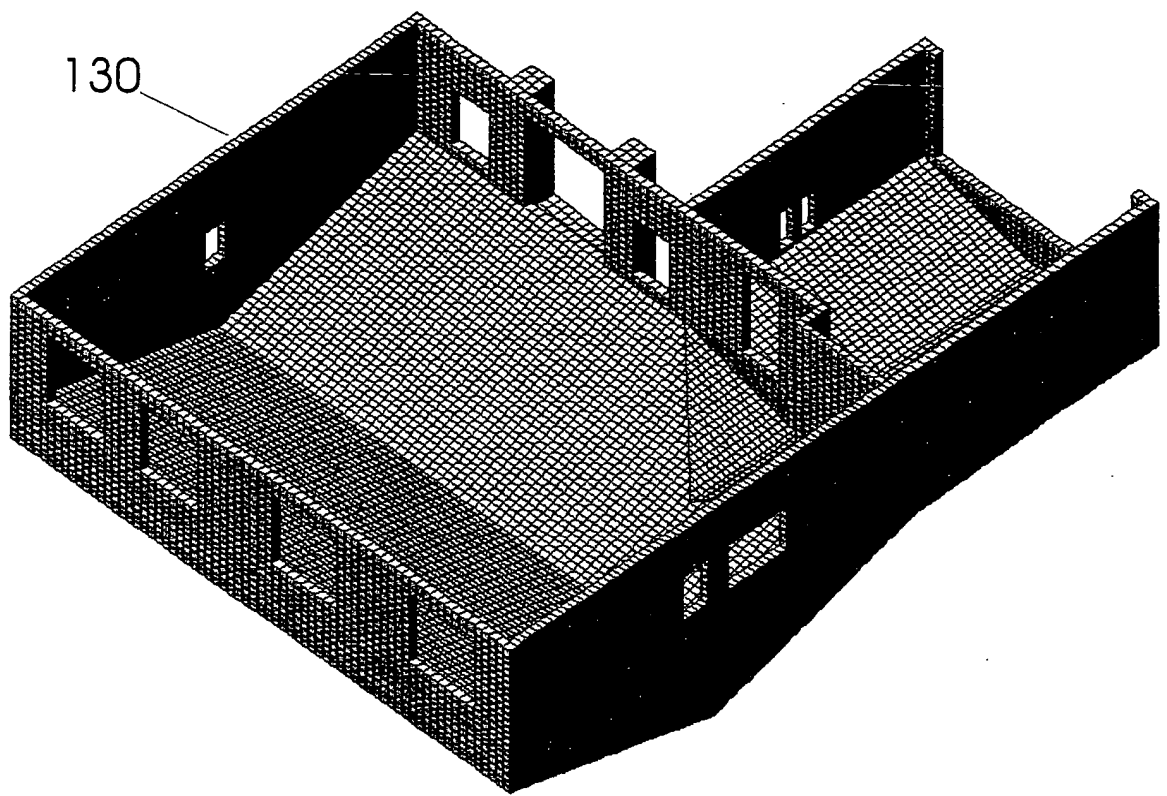


Fig.72

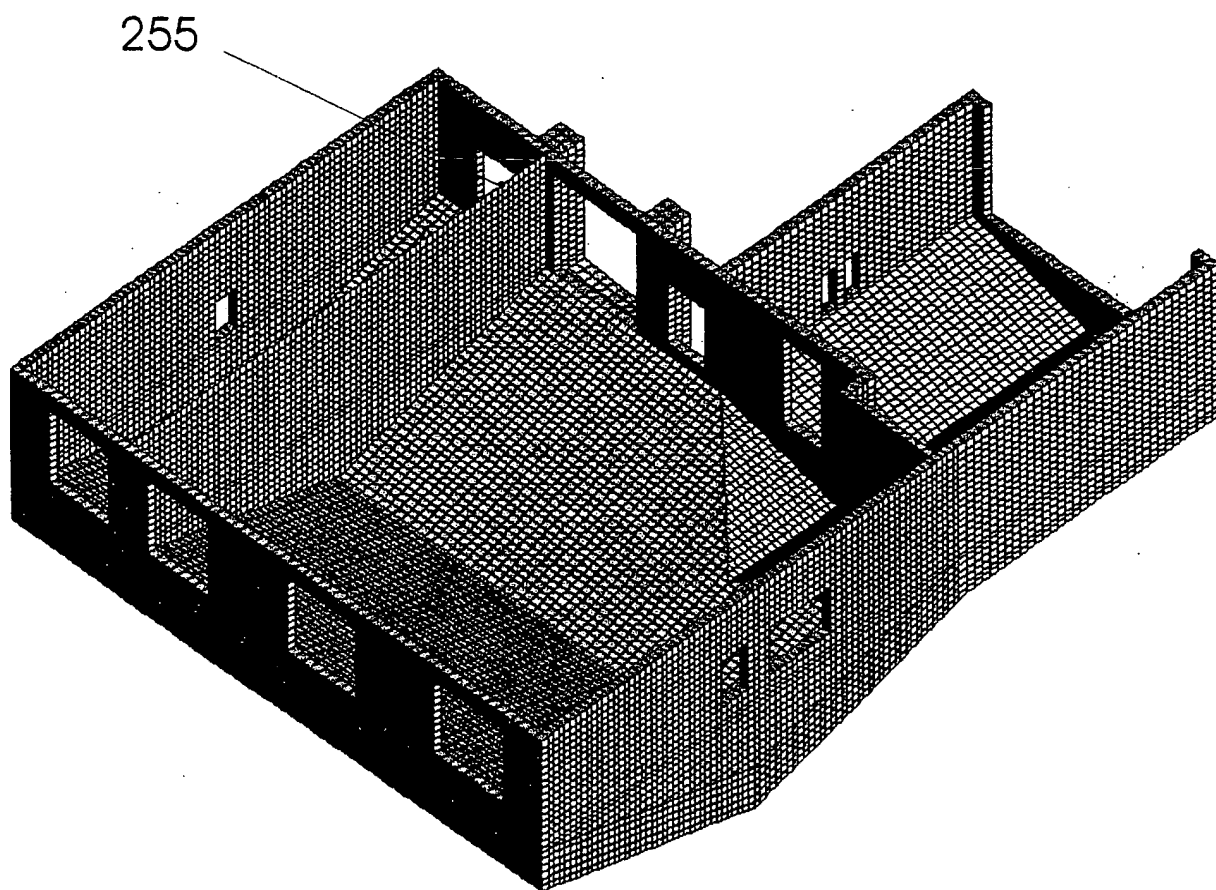


Fig.73

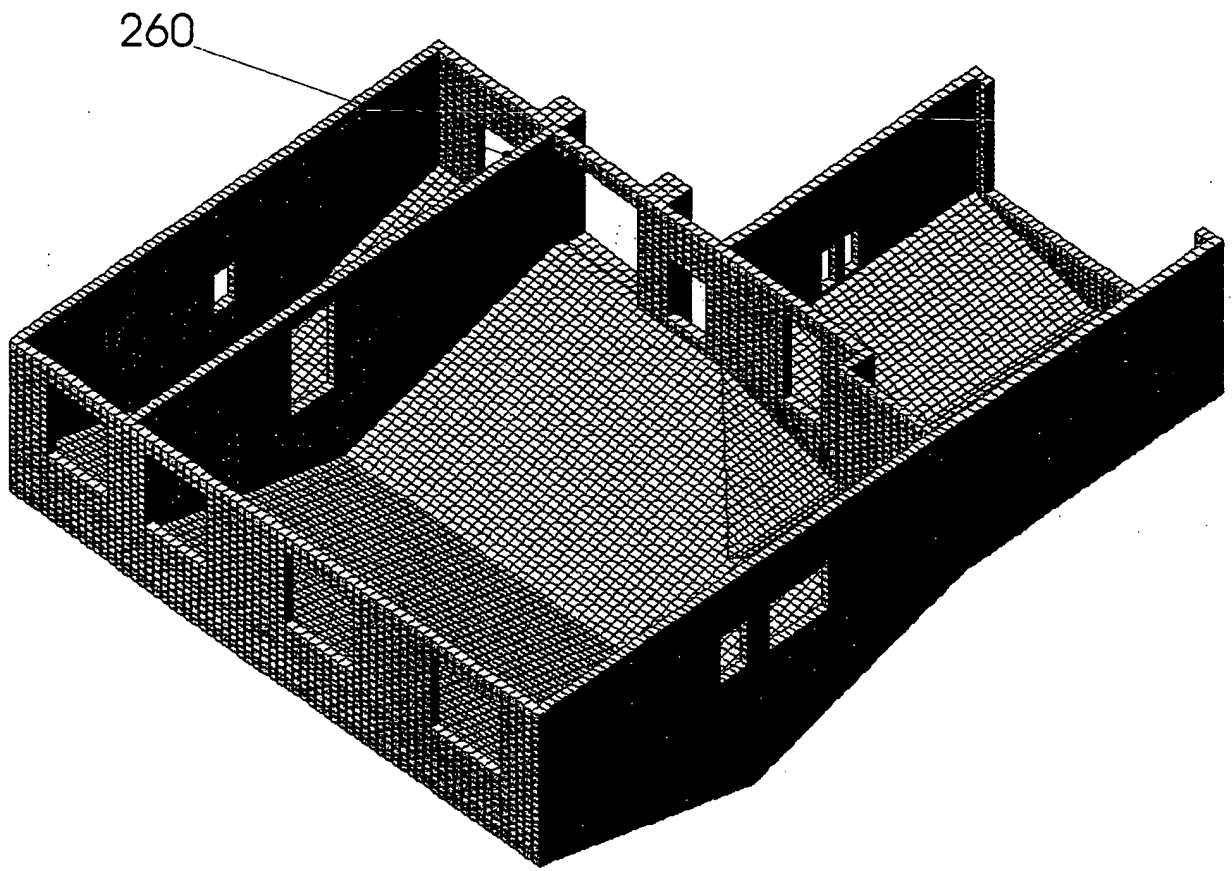


Fig.74

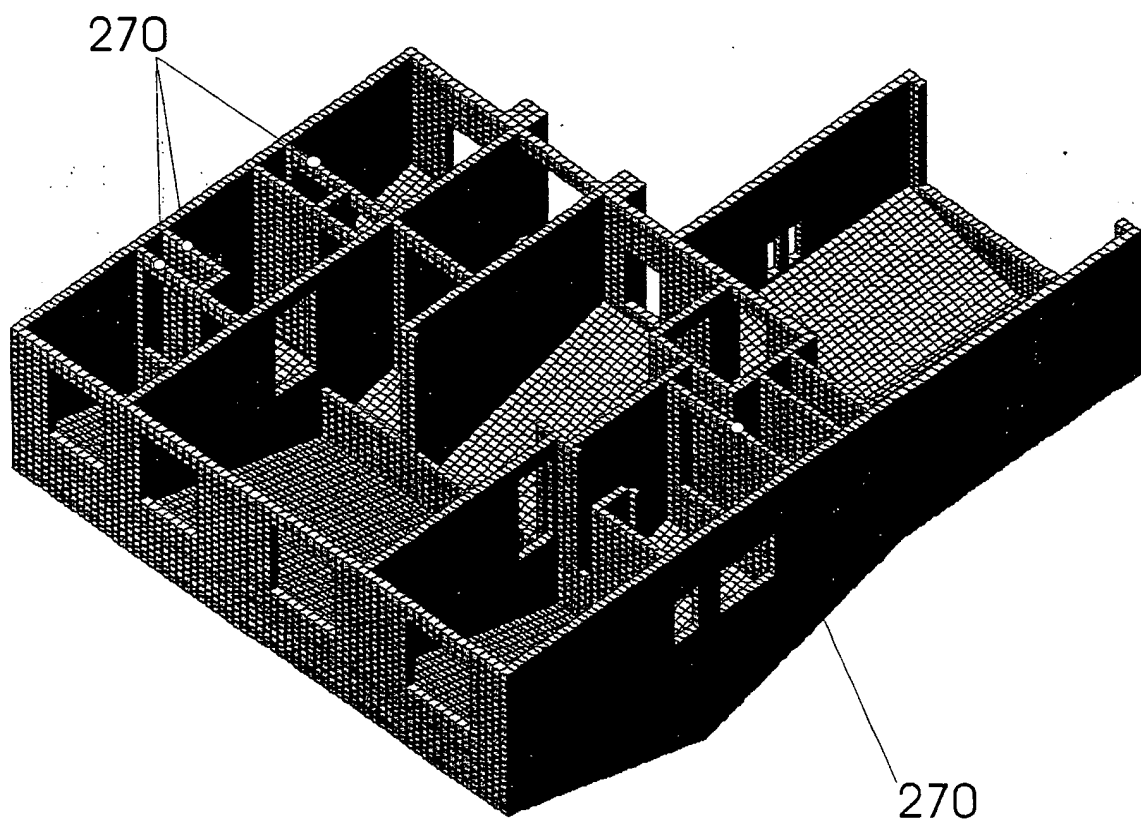


Fig.75

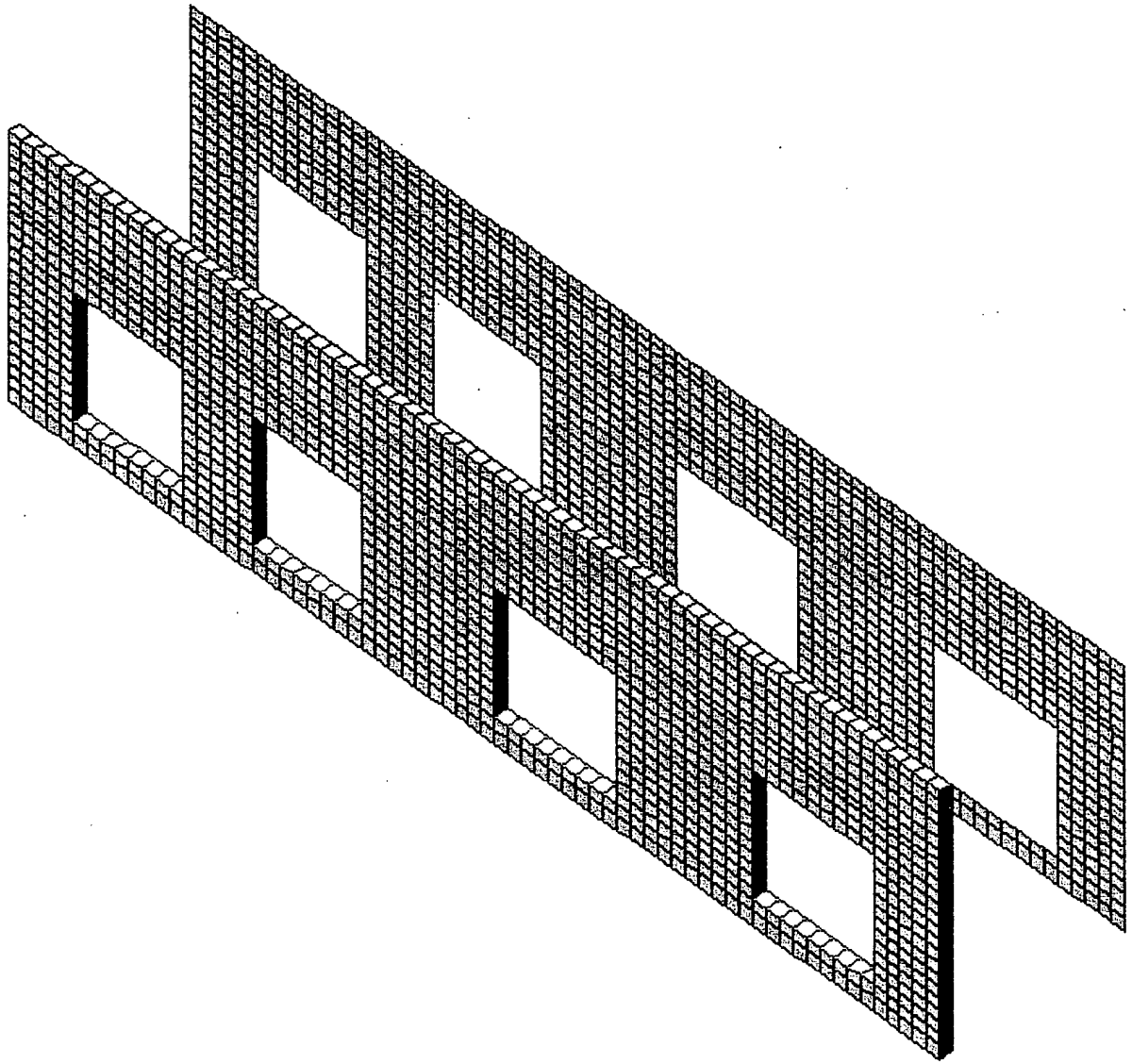


Fig.76

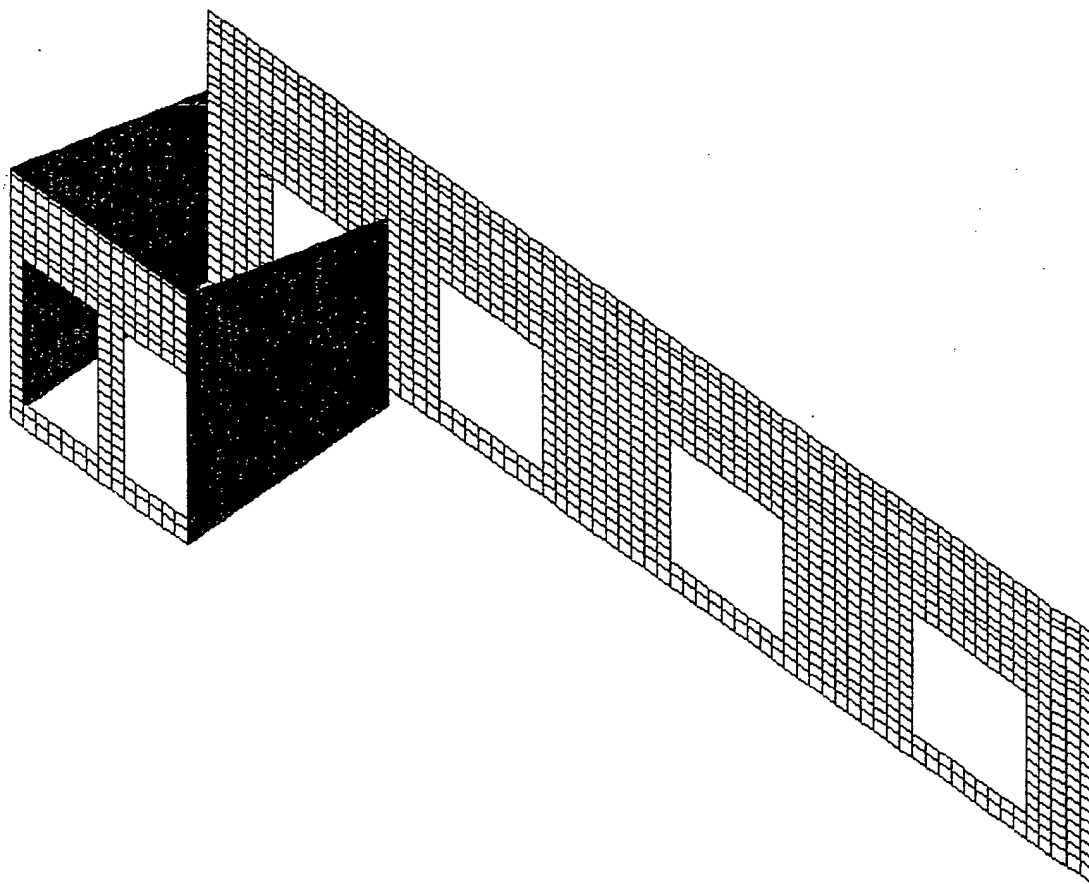


Fig.77

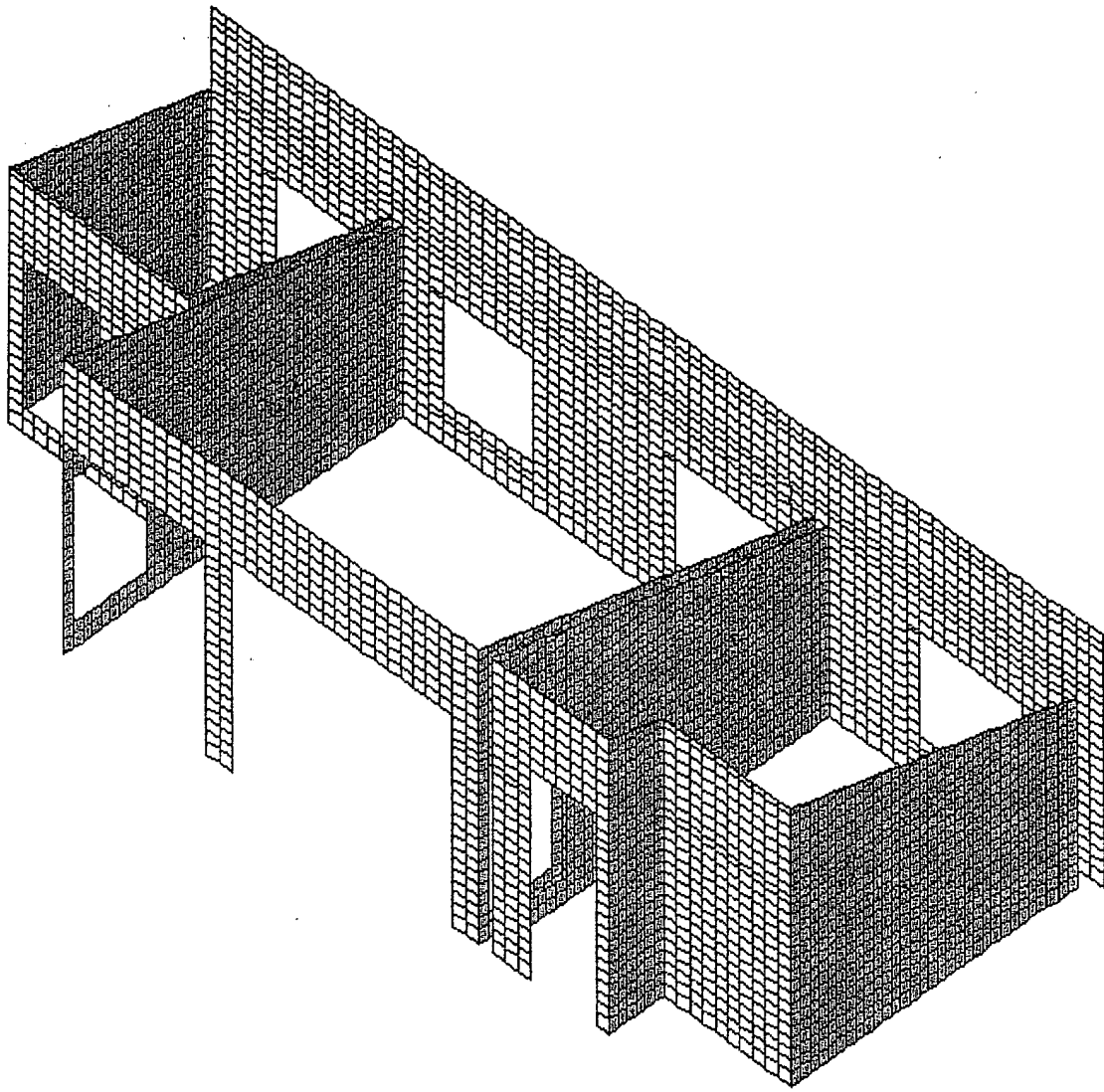


Fig.78

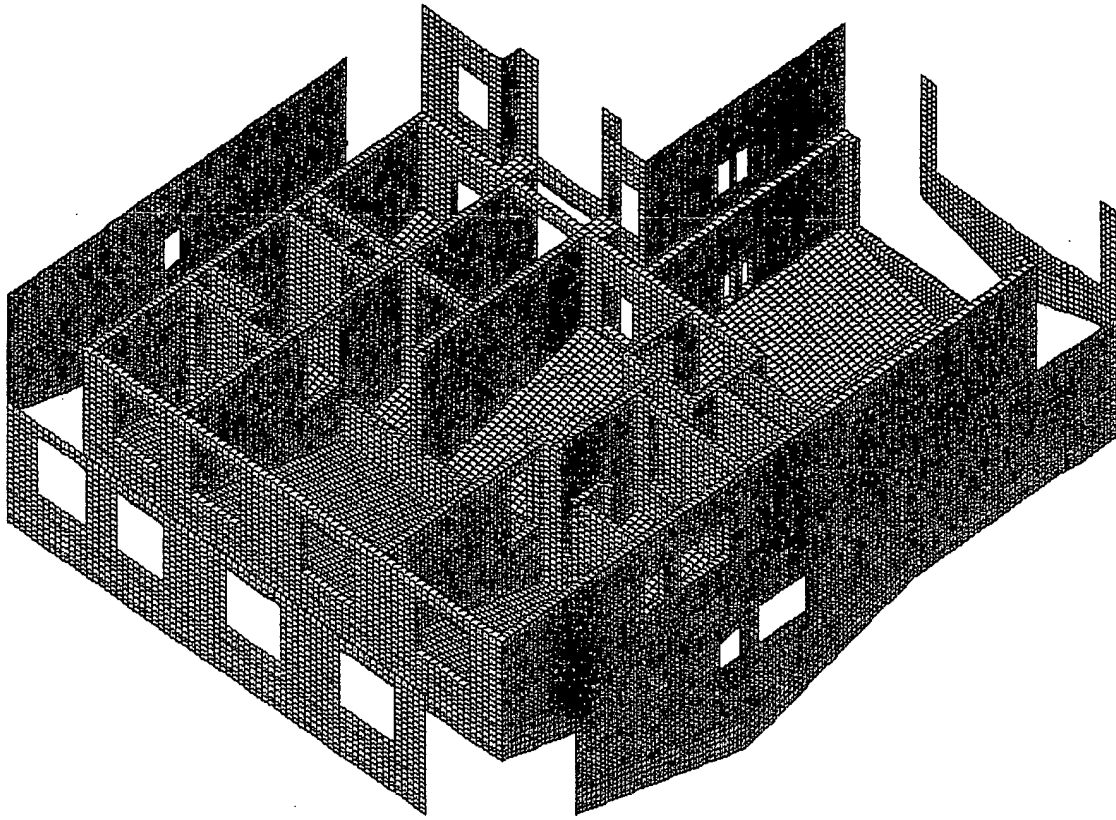


Fig.79

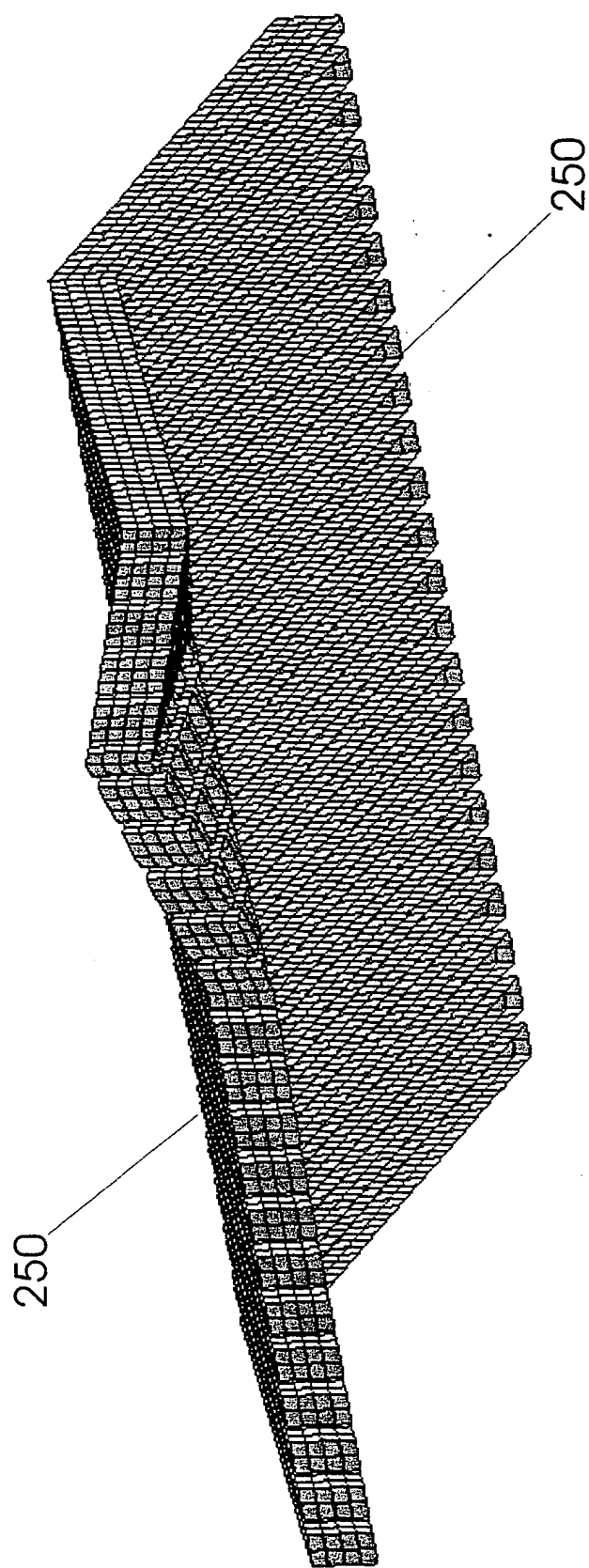


Fig.80

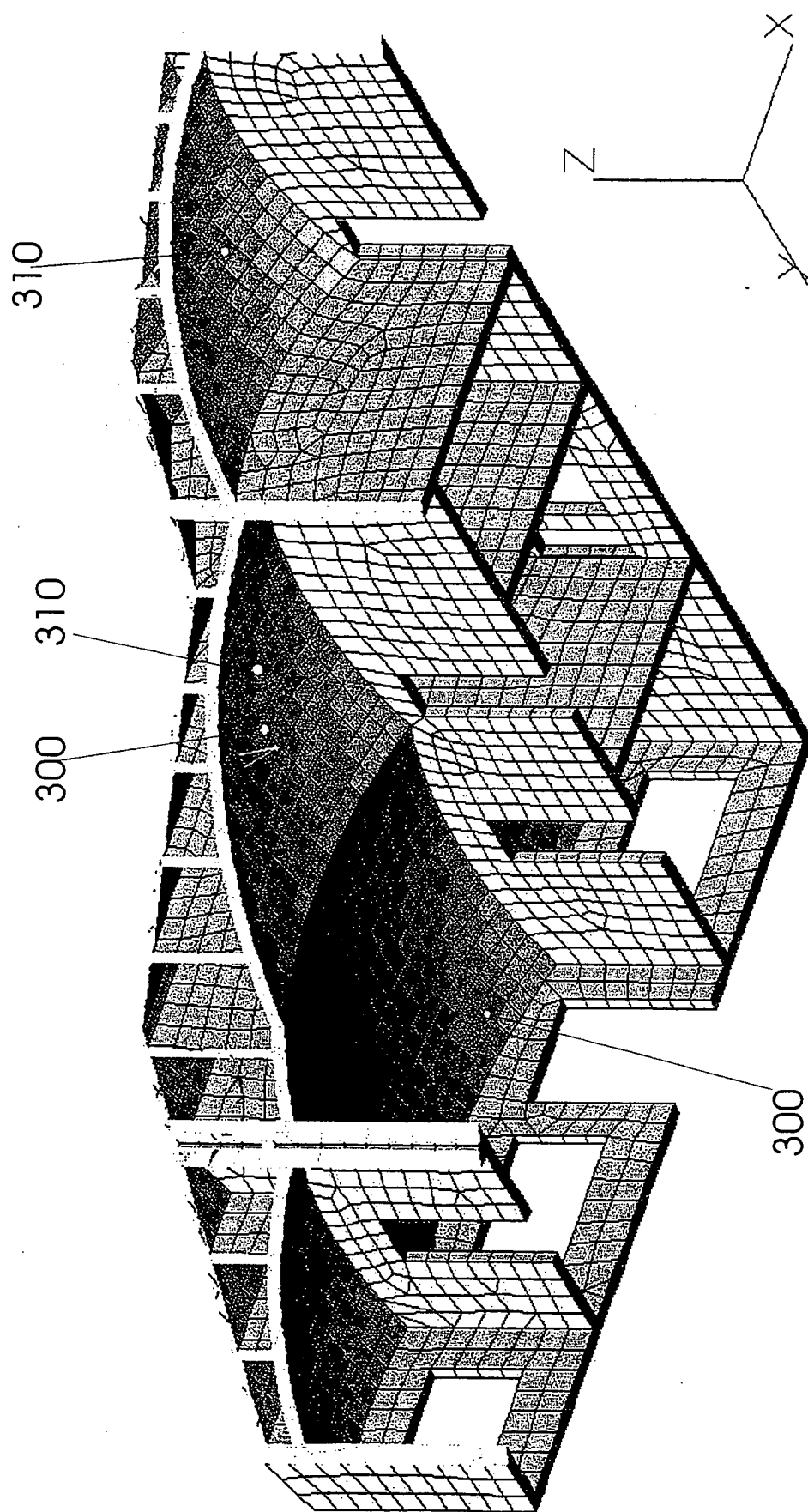


Fig. 81

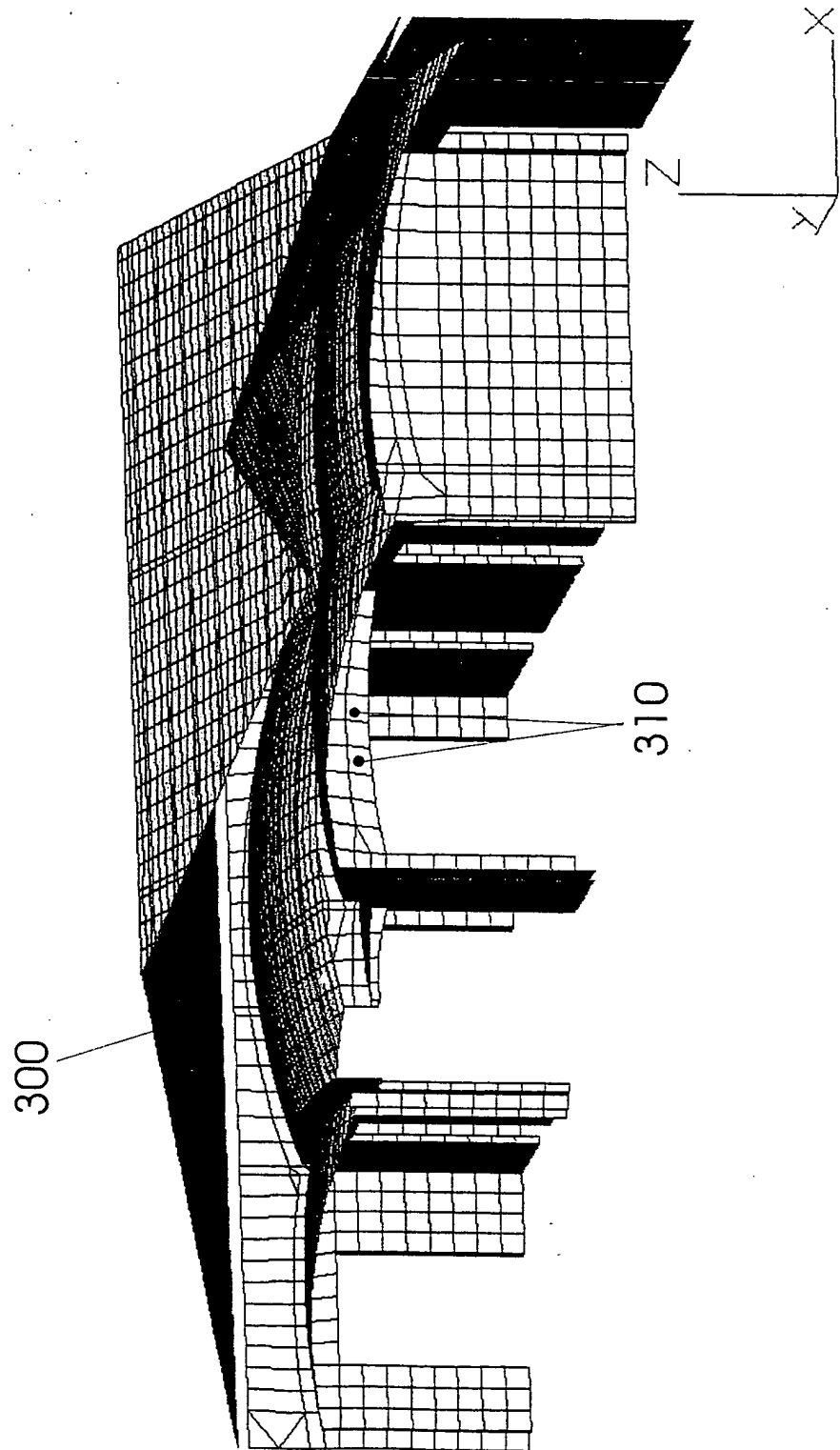


Fig. 82

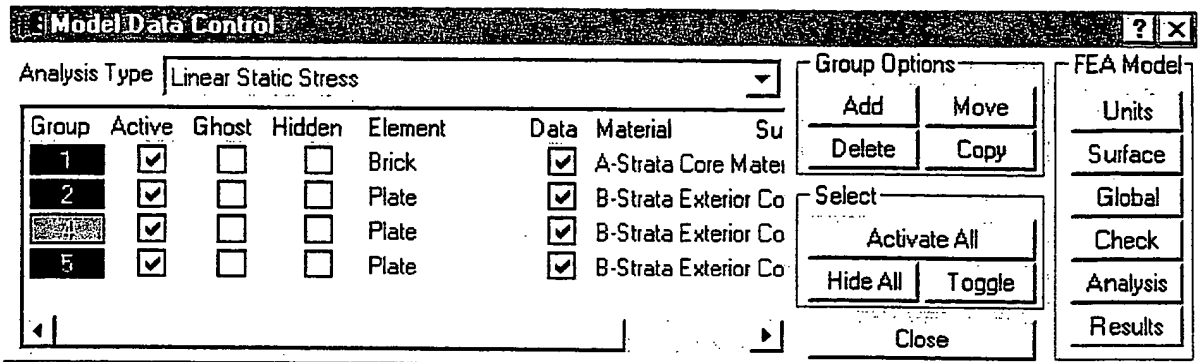


Fig.83

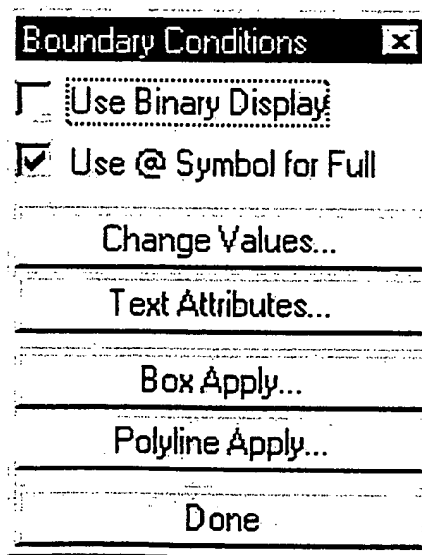


Fig.84

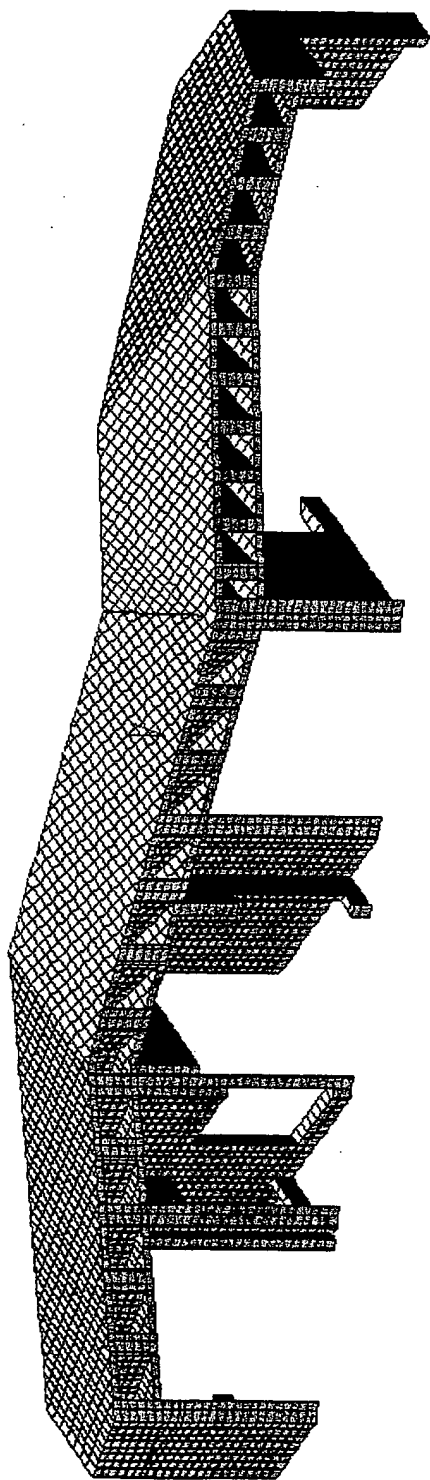


Fig.85

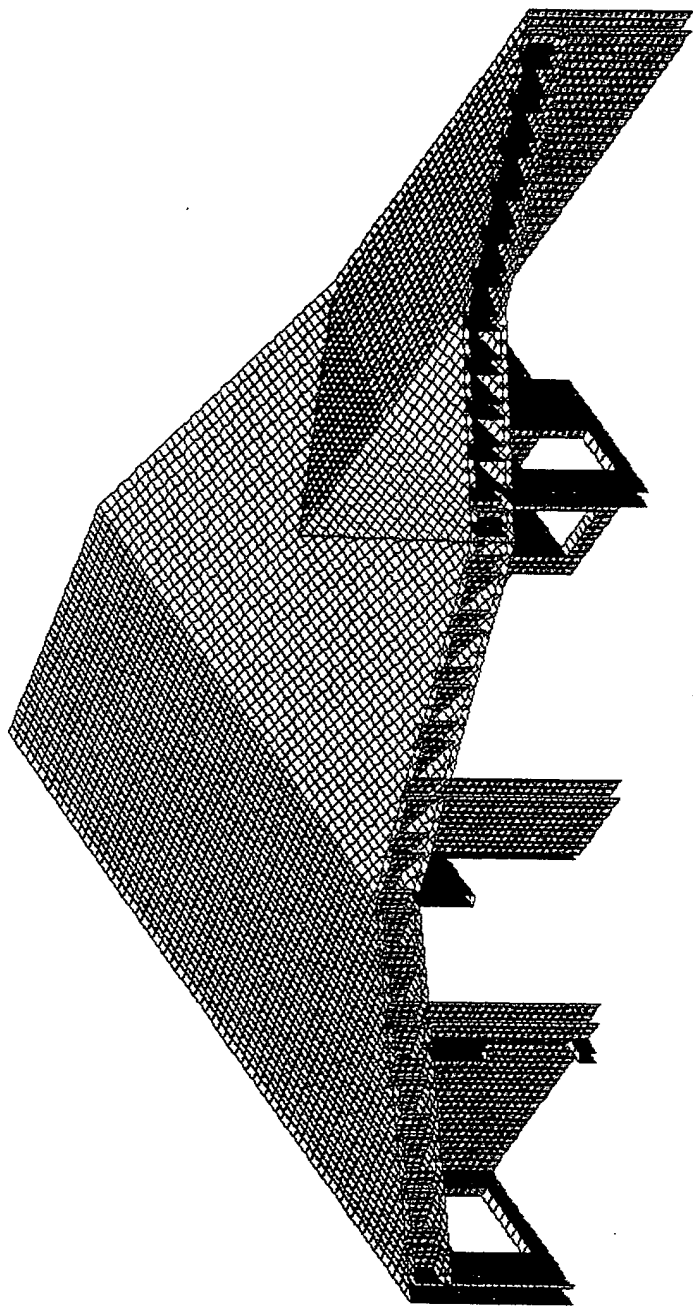


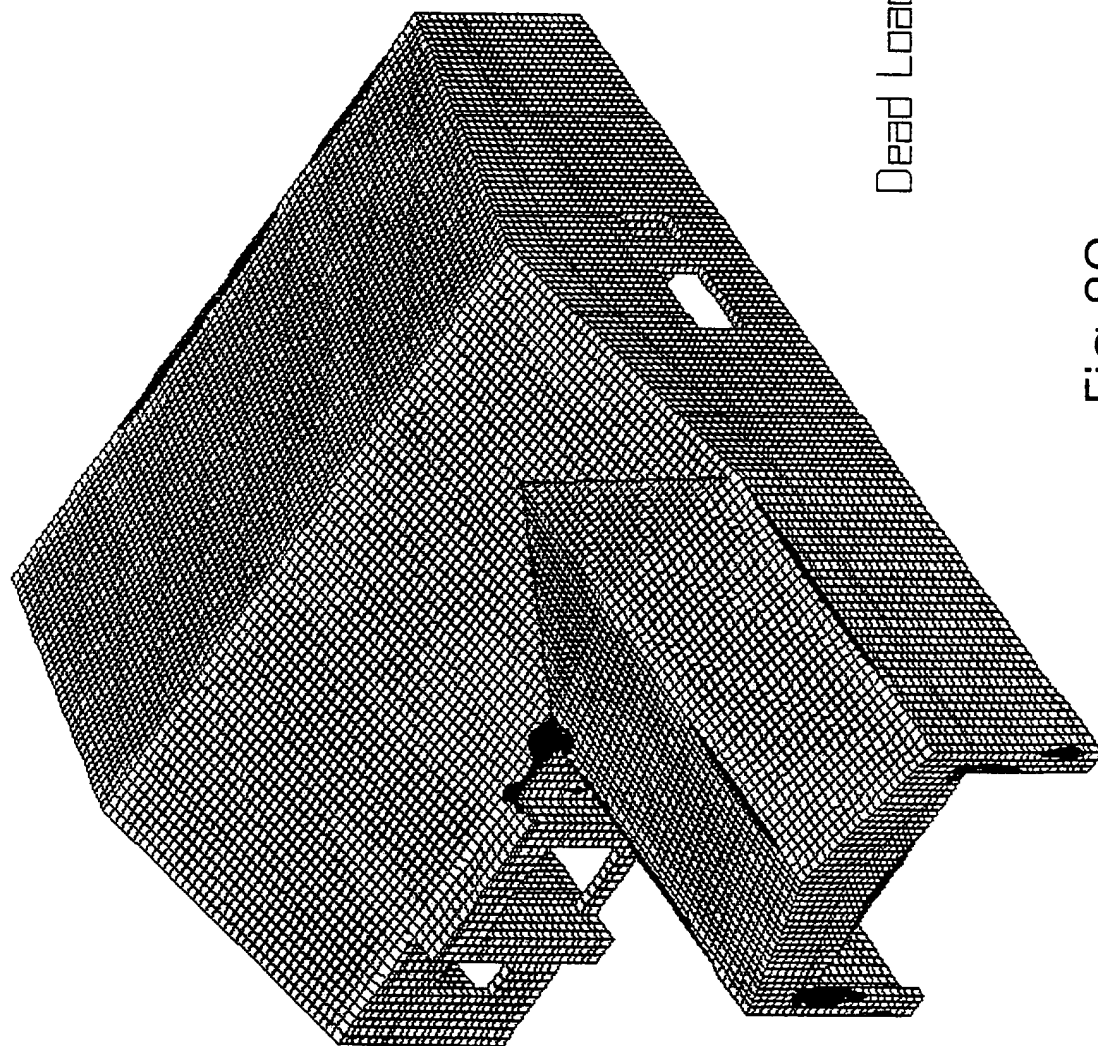
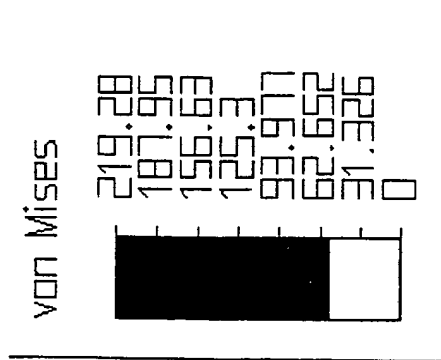
Fig. 86

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Material Name: A-Strata Core Material	
Material Description: None	
<div>Unlock Properties</div>	
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Plastic Properties Ultimate Stress 0 lb/in^2 Yield Stress 0 lb/in^2 Elongation at 2 in. 0 %	
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Fig.87

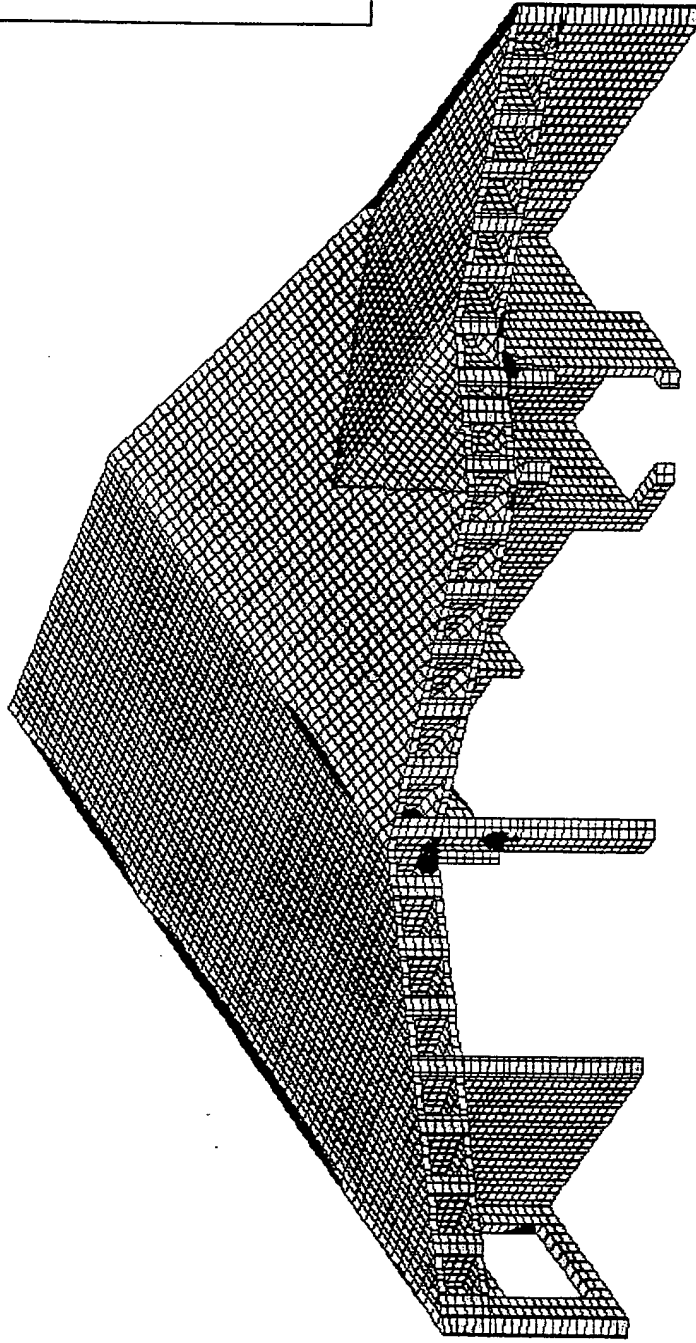
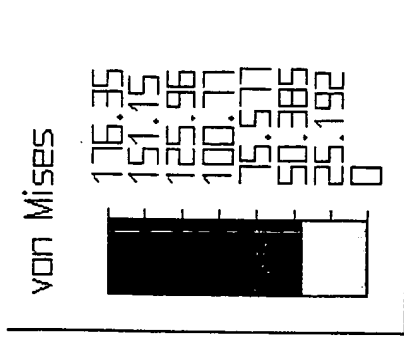
Material Property Entry	
Material Library: NS_Technology	Material Model: Standard
Material Name: B-Strata Exterior Coating	
Material Description: None	
<div>Unlock Properties</div>	
Elastic Properties Modulus of Elasticity 2.5e6 lb/in^2 Poisson's Ratio 0.18 Shear Modulus of Elasticity 2.12e6 lb/in^2 Thermal Coefficient of Expansion 9e-6 $1/^\circ\text{F}$	General Properties Damping 0 Densities Mass Density 1.947e-4 $\text{lb}/\text{s}^2/\text{in}^3$ Electrical Properties Electrical Conductivity 0 $\text{A}/(\text{V}\cdot\text{in})$ Dielectric Constant 0 Thermal Properties Thermal conductivity 0 $\text{in}^2\text{lb}/(\text{s}\cdot\text{in}^\circ\text{F})$ Specific heat 0 $\text{in}^2\text{lb}/(\text{lb}\cdot\text{s}^2/\text{in}^\circ\text{F})$
Plastic Properties Ultimate Stress 3000 lb/in^2 Yield Stress 1200 lb/in^2 Elongation at 2 in. 0 %	
<div>Reload From Library</div> <div>Reset From Default</div>	
<div>OK Cancel Apply Print</div>	

Fig.88



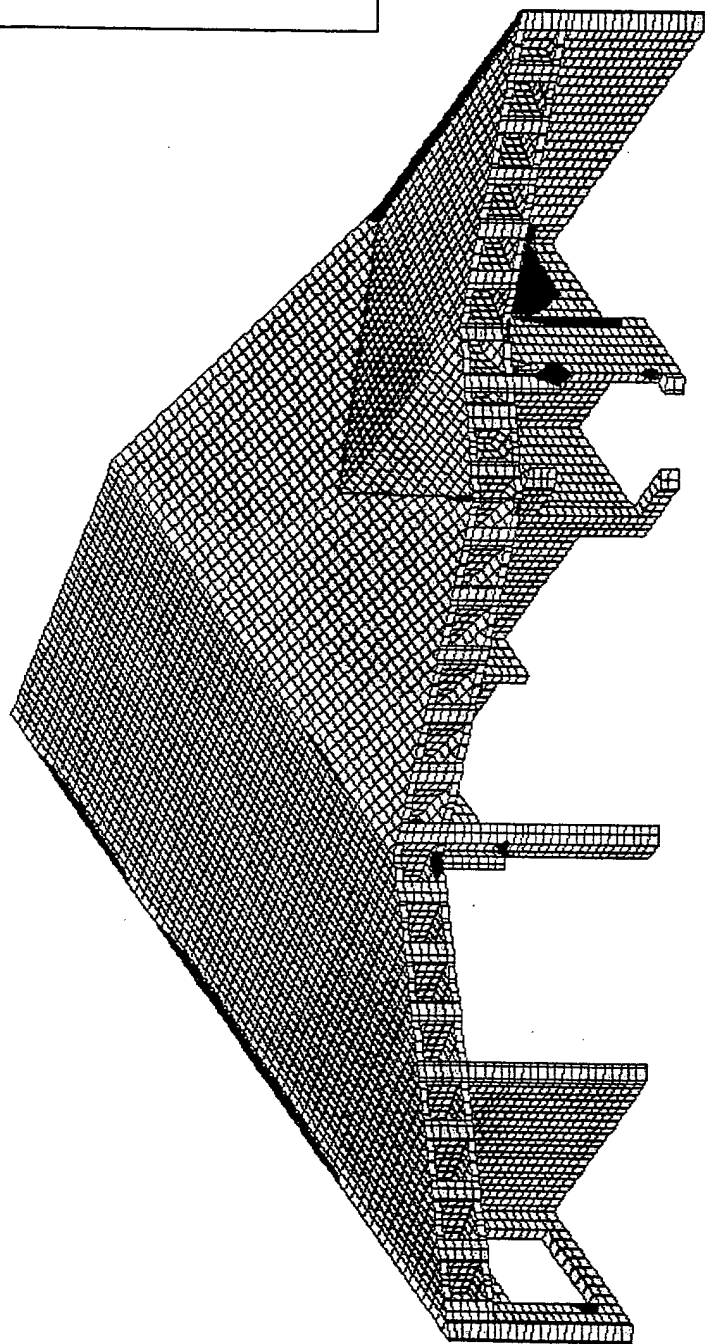
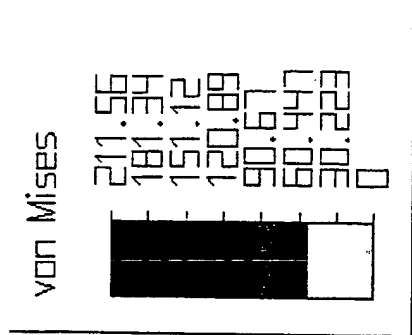
Dead Load Stress, psi

Fig.89



Dead Load Stress, psi

Fig.90



Wind Load Stress, psi

Fig.91

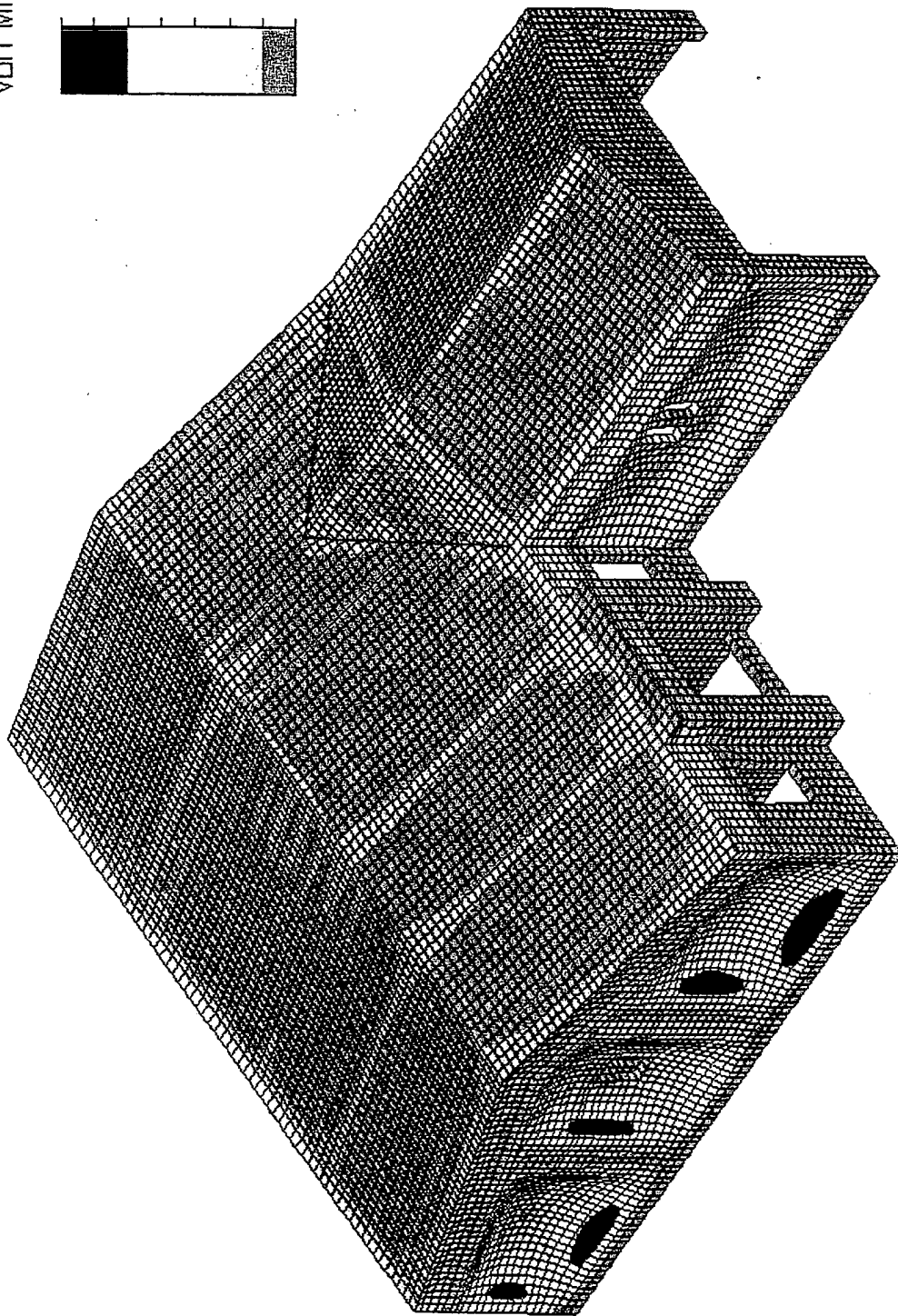
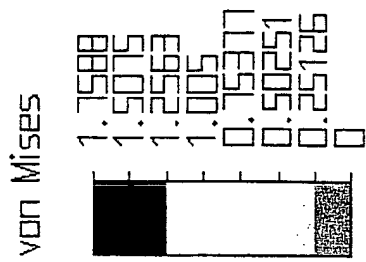
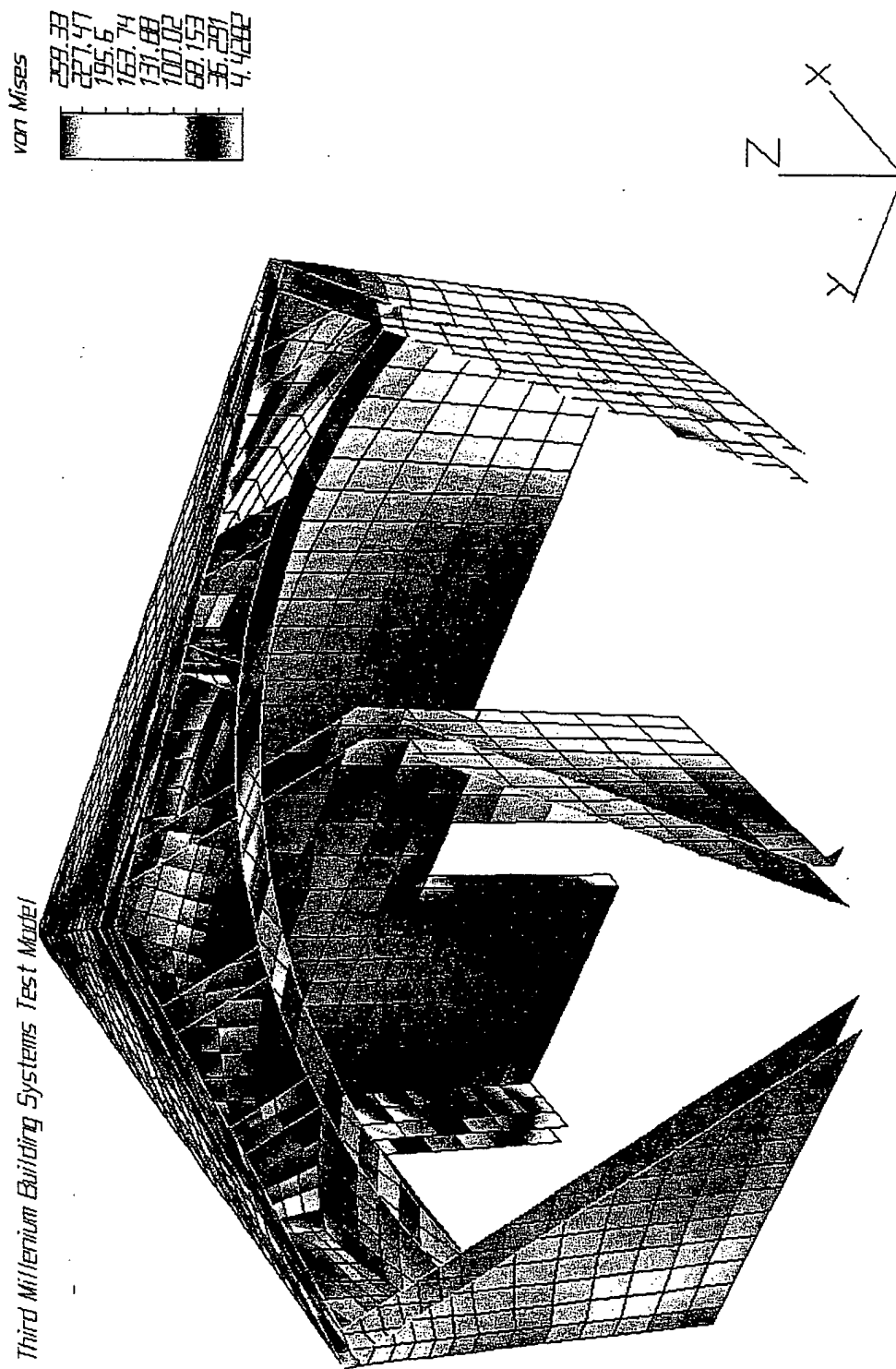


Fig.92

Strata Third Millennium Building Systems Test Model



Scale: 1.00e+000, Step: 235, Time: 4.5 sec
by Integra Engineering, 27-NOV-2000 05:22

Fig. 93

Nodal Forces
Wind and Snow, (lbs/node)

Load Area	Area, in2	# of Nodes	F/Node	Window	Window Nodes	F/Nodes	Case
West wall	78,630	2019	6.76	955.08	20	8.29	2 & 4
Entrance Left	3,802	92	7.17				
Garge Lower	36,314	738	8.54	672	16	7.29	2 & 4
Garage Roof	12,351	979	2.19				2 & 4
Snow Garage Roof	81,846	1903	8.96				3
Snow Garage Roof	81,846	1903	6.72				4
Snow Main Roof	235,000	5275	9.28				3
Snow Main Roof	235,000	5275	6.96				4
Single LL			300				5

Fig.94

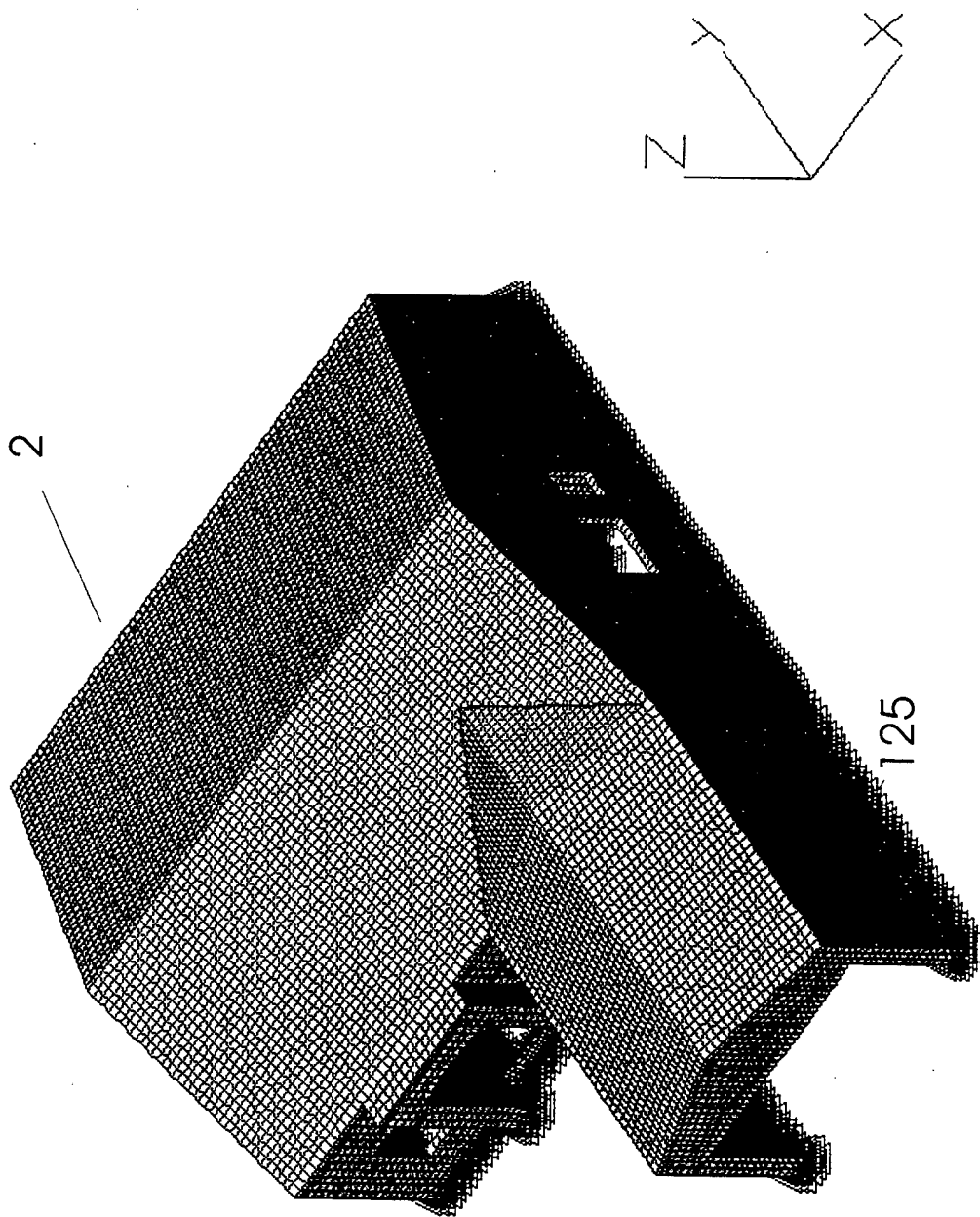


Fig. 95

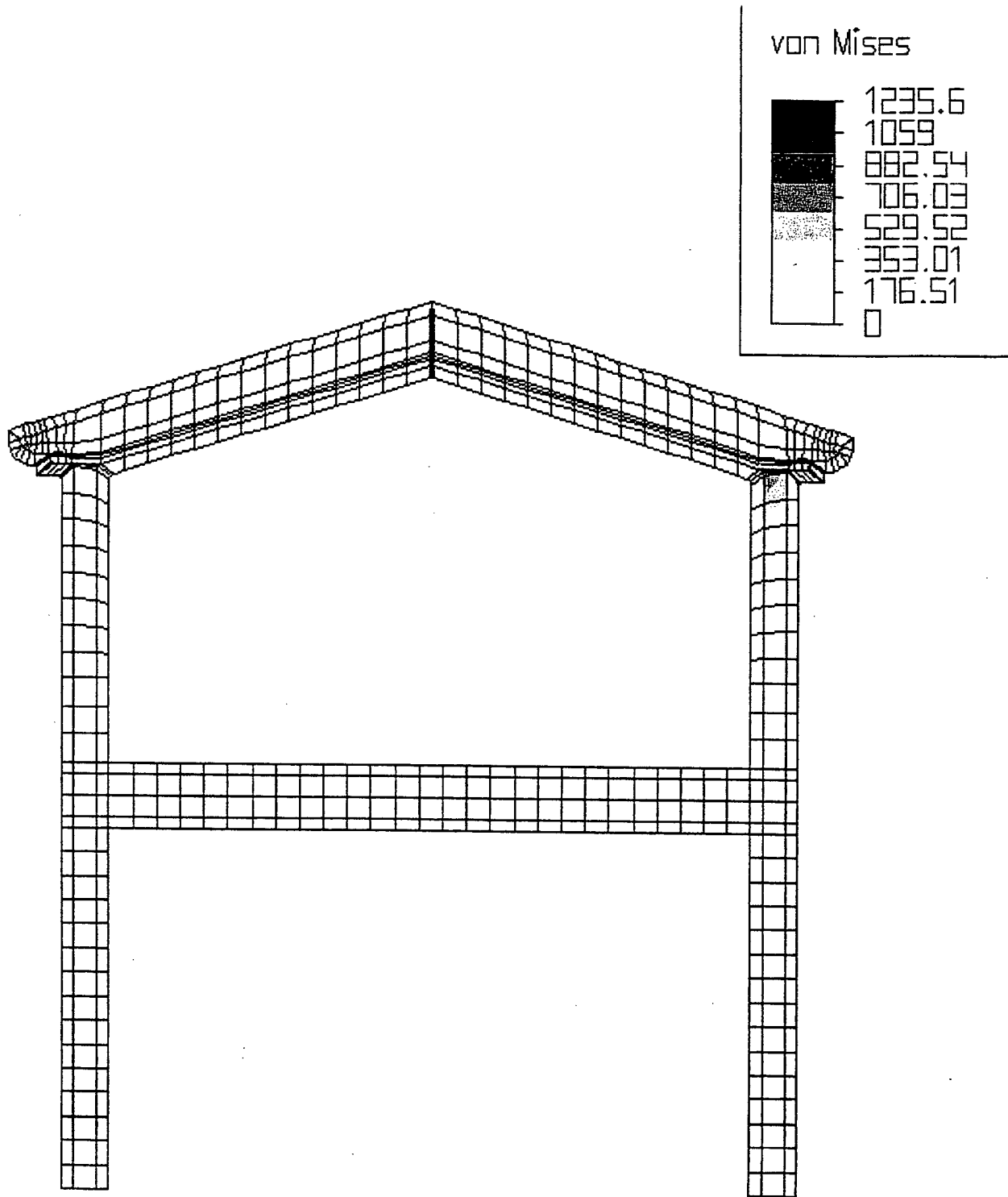


Fig.96

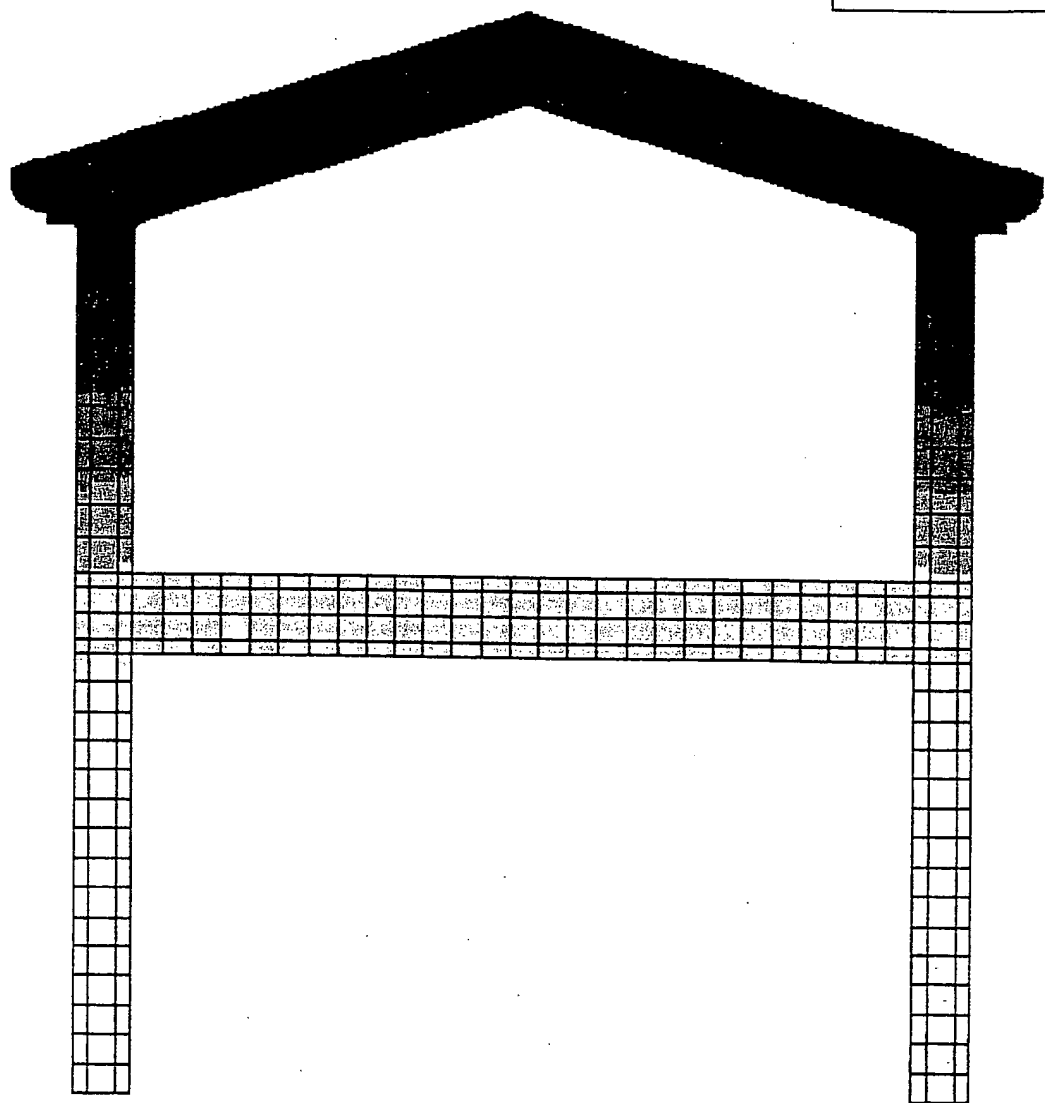


Fig.97